

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: 10-08-2012 Time: 17:37:15

Record Selected for Analysis

RAYM20 L USERRECORD-01 W20DR-D CP XX US  
Channel 20 ERP 13.5 kW HAAT 552. m RCAMSL 00905 m FULL SERVICE MASK  
Latitude 018-06-47 Longitude 0066-03-06  
Status APP Zone 2 Border Site number: 01  
Dir Antenna Make CDB Model 00000000017789 Beam tilt N Ref Azimuth 165.  
Last update Cutoff date Docket  
Comments  
Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 0.50 km

Not full service station

Service Class = LD

Maximum height/power limits not checked

Site number	1		
Azimuth	ERP	HAAT	51.0 dBu F(50,90)
(Deg)	(kW)	(m)	(km)
0.0	0.012	748.8	26.0
45.0	1.215	658.4	52.4
90.0	13.098	593.8	66.3
135.0	11.426	456.0	61.3
180.0	12.572	708.5	68.9
225.0	13.231	390.5	59.2
270.0	6.151	423.2	56.3
315.0	0.015	439.5	22.0

Contour Overlap to Proposed Station

Contour Overlap Evaluation to Proposed Station 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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Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
20	RAYM20 L	RAYM20 LA SANTA CP_I XX	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
19	WKPV	PONCE PR	73.7	LIC	BLCDT	-20081002AAX
20	WSVI	CHRISTIANSTED VI	138.3	LIC	BLCDT	-20090603AFN
21	WJPX	SAN JUAN PR	27.9	LIC	BLCDT	-20060621ACJ

%%%

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
19	WKPV	PONCE PR	BLCDT	-20081002AAX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
18	WECN	NARANJITO PR	56.0	LIC	BLCDT	-20090610ABG
20	WSVI	CHRISTIANSTED VI	209.3	LIC	BLCDT	-20090603AFN
20	RAYM20 L	RAYM20 LA SANTA CP_I XX	73.7	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1  
Scenario 1 Affected station 1  
Before Analysis

Results for: 19A PR PONCE BLCDT 20081002AAX LIC  
HAAT 269.0 m, ATV ERP 700.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2585482	27009.6
not affected by terrain losses	1765822	25393.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1192	3.9
lost to ATV IX only	1192	3.9
lost to all IX	1192	3.9

Potential Interfering Stations Included in above Scenario 1

18A PR NARANJITO	BLCDT	20090610ABG	LIC
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After Analysis

Results for: 19A PR PONCE BLCDT 20081002AAX LIC  
HAAT 269.0 m, ATV ERP 700.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2585482	27009.6
not affected by terrain losses	1765822	25393.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	9673	93.8
lost to ATV IX only	9673	93.8
lost to all IX	9673	93.8

Potential Interfering Stations Included in above Scenario 1

18A PR NARANJITO	BLCDT	20090610ABG	LIC
20A XX RAYM20 LA SANTA CP_I	USERRECORD01		APP

Percent new IX = 0.4806%

Worst case new IX 0.4806% Scenario 1

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## Analysis of Interference to Affected Station 2

### Analysis of current record

Channel	Call	City/State	Application Ref. No.
20	WSVI	CHRISTIANSTED VI	BLCDT -20090603AFN

### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
19	WKPV	PONCE PR	209.3	LIC	BLCDT -20081002AAX
21	WJPX	SAN JUAN PR	125.8	LIC	BLCDT -20060621ACJ
20	RAYM20 L RAYM20 LA SANTA CP_I XX		138.3	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.
21	WJPX	SAN JUAN PR	BLCDT -20060621ACJ

### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
20	WSVI	CHRISTIANSTED VI	125.8	LIC	BLCDT -20090603AFN
22	WOST	MAYAGUEZ PR	141.1	LIC	BLCDT -20090813AAM
20	RAYM20 L RAYM20 LA SANTA CP_I XX		27.9	APP	USERRECORD-01

Total scenarios = 1

Result key: 2  
 Scenario 1 Affected station 3  
 Before Analysis

Results for: 21A PR SAN JUAN BLCDT 20060621ACJ LIC

HAAT 564.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3335328	40637.4
not affected by terrain losses	3107929	39241.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	974	13.8
lost to ATV IX only	974	13.8
lost to all IX	974	13.8

Potential Interfering Stations Included in above Scenario 1

22A PR MAYAGUEZ BLC DT 20090813AAM LIC

After Analysis

Results for: 21A PR SAN JUAN BLC DT 20060621ACJ LIC

HAAT 564.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3335328	40637.4
not affected by terrain losses	3107929	39241.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10083	1252.4
lost to ATV IX only	10083	1252.4
lost to all IX	10083	1252.4

Potential Interfering Stations Included in above Scenario 1

22A PR MAYAGUEZ BLC DT 20090813AAM LIC

20A XX RAYM20 LA SANTA CP\_I USERRECORD01 APP

Percent new IX = 0.2932%

Worst case new IX 0.2932% Scenario 1

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#### Analysis of Interference to Affected Station 4

#### Analysis of current record

Channel	Call	City/State	Application Ref. No.
20	RAYM20 L	RAYM20 LA SANTA CP_I XX	USERRECORD-01

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
19	WKPV	PONCE PR	73.7	LIC	BLC DT -20081002AAX
20	WSVI	CHRISTIANSTED VI	138.3	LIC	BLC DT -20090603AFN
21	WJPX	SAN JUAN PR	27.9	LIC	BLC DT -20060621ACJ

Total scenarios = 1

Result key: 3

Scenario 1 Affected station 4

Before Analysis

Results for: 20A XX RAYM20 LA SANTA CP\_I USERRECORD01 APP

HAAT 552.0 m, ATV ERP 13.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1223679	9764.2
not affected by terrain losses	994636	9019.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	301191	1304.3
lost to ATV IX only	301191	1304.3
lost to all IX	301191	1304.3

Potential Interfering Stations Included in above Scenario 1

19A PR PONCE	BLCDT	20081002AAX	LIC
20A VI CHRISTIANSTED	BLCDT	20090603AFN	LIC
21A PR SAN JUAN	BLCDT	20060621ACJ	LIC

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