

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: 07-23-2011 Time: 14:43:00

Record Selected for Analysis

W40DE-D. USERRECORD-01 GUAYNABO PR US  
Channel 03 ERP 2.7 kW HAAT 320. m RCAMSL 00540 m STRINGENT MASK  
Latitude 018-16-49 Longitude 0066-06-35  
Status APP Zone 1 Border Site number: 01  
Dir Antenna Make usr Model USRPAT01 Beam tilt N Ref Azimuth 4.  
Last update Cutoff date Docket  
Comments  
Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Not full service station  
Service Class = LD  
Maximum height/power limits not checked

Site number	1			
Azimuth	ERP	HAAT	43.0 dBu F(50,90)	
(Deg)	(kW)	(m)	(km)	
0.0	2.614	474.3	76.3	
45.0	1.046	436.2	65.2	
90.0	0.004	420.7	23.5	
135.0	0.058	390.0	40.3	
180.0	0.087	133.0	28.0	
225.0	0.064	102.8	23.9	
270.0	0.001	161.4	11.1	
315.0	0.688	444.8	62.1	

Contour Overlap to Proposed Station

Contour Overlap Evaluation to Proposed Station Complete

NO LANDMOBILE SPACING VIOLATIONS FOUND

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

\*\*\*\*\*  
Start of Interference Analysis

Channel	Proposed Station	ARN
03	Call W40DE-D. City/State GUAYNABO PR	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	W02CT-S	ARECIBO PR	69.3	CP	BNPDVL	-20090903ACW
02	W02CU-D	MAYAGUEZ PR	113.0	CP	BNPDVL	-20090903ACZ
02	W02CS-D	PONCE PR	63.8	CP	BNPDVL	-20090903ACU
04	W44CK	SAN JUAN PR	27.0	CP	BDISDVL	-20090820AAE

%%

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
02	W02CT-S	ARECIBO PR	BNPDVL	-20090903ACW

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	W02CU-D	MAYAGUEZ PR	48.8	CP	BNPDVL	-20090903ACZ
02	W02CS-D	PONCE PR	52.0	CP	BNPDVL	-20090903ACU
03	W40DE-D.	GUAYNABO PR	69.3	APP	USERRECORD-01	

Proposal causes no interference

#####

Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
02	W02CU-D	MAYAGUEZ PR	BNPDVL	-20090903ACZ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	W02CT-S	ARECIBO PR	48.8	CP	BNPDVL	-20090903ACW
02	W02CS-D	PONCE PR	67.6	CP	BNPDVL	-20090903ACU
03	W40DE-D.	GUAYNABO PR	113.0	APP	USERRECORD-01	

Proposal causes no interference

#####

Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
02	W02CS-D	PONCE PR	BNPDVL	-20090903ACU

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	W02CT-S	ARECIBO PR	52.0	CP	BNPDVL	-20090903ACW
02	W02CU-D	MAYAGUEZ PR	67.6	CP	BNPDVL	-20090903ACZ
03	W40DE-D.	GUAYNABO PR	63.8	APP	USERRECORD-01	

Proposal causes no interference

#####

Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
---------	------	------------	-------------	----------

04 W44CK SAN JUAN PR BDISDVL -20090820AAE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
03	W40DE-D.	GUAYNABO PR	27.0	APP	USERRECORD-01

Total scenarios = 1

Result key: 1  
 Scenario 1 Affected station 4  
 Before Analysis

Results for: 4A PR SAN JUAN BDISDVL 20090820AAE CP  
 HAAT 695.0 m, ATV ERP 0.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2310523	6500.4
not affected by terrain losses	2307839	6470.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	0	0.0

Potential Interfering Stations Included in above Scenario 1

After Analysis

Results for: 4A PR SAN JUAN BDISDVL 20090820AAE CP  
 HAAT 695.0 m, ATV ERP 0.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2310523	6500.4
not affected by terrain losses	2307839	6470.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	40199	122.1
lost to ATV IX only	40199	122.1
lost to all IX	40199	122.1

Potential Interfering Stations Included in above Scenario 1

3A PR GUAYNABO USERRECORD01 APP

Percent new IX = 1.7418%

Worst case new IX 1.7418% Scenario 1

#####

Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
03	W40DE-D.	GUAYNABO PR	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
02	W02CT-S	ARECIBO PR	69.3	CP	BNPDVL -20090903ACW
02	W02CU-D	MAYAGUEZ PR	113.0	CP	BNPDVL -20090903ACZ
02	W02CS-D	PONCE PR	63.8	CP	BNPDVL -20090903ACU
04	W44CK	SAN JUAN PR	27.0	CP	BDISDVL -20090820AAE

Total scenarios = 1

Result key: 2  
 Scenario 1 Affected station 5  
 Before Analysis

Results for: 3A PR GUAYNABO USERRECORD01 APP  
 HAAT 320.0 m, ATV ERP 2.7 kW

	POPULATION	AREA (sq km)
--	------------	--------------

within Noise Limited Contour	2080097	7046.4
not affected by terrain losses	2080042	7045.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	42364	122.0
lost to ATV IX only	42364	122.0
lost to all IX	42364	122.0

Potential Interfering Stations Included in above Scenario 1

4A PR SAN JUAN BDISDVL 20090820AAE CP

#####

FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED