

Census data selected: 2000

Post DTV Transition Database Selected

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 08-31-2009 Time: 20:06:38

Record Selected for Analysis

NEW USERRECORD-01 CROWN CASTLE PONCE PR US
Channel 02 ERP 0.3 kW HAAT 48. m RCAMSL 00069 m STRINGENT MASK
Latitude 018-00-34 Longitude 0066-36-49
Status APP Zone 2 Border
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

Facility meets maximum power limit

Azimuth (Deg)	ERP (kW)	HAAT (m)	43.0 dBu F(50,90) (km)
0.0	0.300	33.0	20.4
45.0	0.300	33.0	20.4
90.0	0.300	59.5	26.3
135.0	0.300	68.5	27.7
180.0	0.300	68.8	27.8
225.0	0.300	68.8	27.8
270.0	0.300	33.0	20.4
315.0	0.300	33.0	20.4

Contour Overlap to Proposed Station

Contour Overlap Evaluation to Proposed Station Complete

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	Call	Proposed Station City/State	ARN
02	NEW	WRIO PONCE PR	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
02	NEW	CAROLINA PR	85.7	APP	BNPDVL -20090825BQX
02	NEW	SAN JUAN PR	57.0	APP	BNPDVL -20090825AWM

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application Ref. No.
02	NEW	CAROLINA PR	BNPDVL -20090825BQX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
02	NEW	SAN JUAN PR	33.0	APP	BNPDVL -20090825AWM
02	NEW	WRIO PONCE PR	85.7	APP	USERRECORD-01

Total scenarios = 2

Result key: 1
Scenario 1 Affected station 1 NEW
Before Analysis

Results for: 2A PR CAROLINA BNPDL 20090825BQX APP

HAAT 1.0 m, ATV ERP 0.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2434728	11788.0
not affected by terrain losses	2434548	11691.5
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: 2A PR CAROLINA BNPDLV 20090825BQX APP

HAAT 1.0 m, ATV ERP 0.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2434728	11788.0
not affected by terrain losses	2434548	11691.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	43343	345.7
lost to ATV IX only	43343	345.7
lost to all IX	43343	345.7

Potential Interfering Stations Included in above Scenario 1

2A PR WRIO PONCE USERRECORD01 APP

Percent new IX = 1.7803%

Result key: 2

Scenario 2 Affected station 1 NEW

Before Analysis

Results for: 2A PR CAROLINA BNPDLV 20090825BQX APP

HAAT 1.0 m, ATV ERP 0.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2434728	11788.0
not affected by terrain losses	2434548	11691.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	430153	1306.8
lost to ATV IX only	430153	1306.8
lost to all IX	430153	1306.8

Potential Interfering Stations Included in above Scenario 2

2A PR SAN JUAN BNPDLV 20090825AWM APP

After Analysis

Results for: 2A PR CAROLINA BNPDLV 20090825BQX APP

HAAT 1.0 m, ATV ERP 0.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2434728	11788.0
not affected by terrain losses	2434548	11691.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	473173	1620.0
lost to ATV IX only	473173	1620.0
lost to all IX	473173	1620.0

Potential Interfering Stations Included in above Scenario 2

2A PR SAN JUAN BNPDLV 20090825AWM APP

2A PR WRIO PONCE USERRECORD01 APP

The following station failed the de minimis interference criteria.

2D PR WRIO PONCE USERRECORD01
ERP 0.30 kW HAAT 48.0 m RCAMSL 69.0 m
Antenna none

Due to interference to the following station and scenario: 2

2D PR CAROLINA BNPDL 20090825BQX
ERP 0.30 kW HAAT 1.0 m RCMSL 778.0 m
Antenna CDB 999999999999999

Percent Service lost without proposal: 0.0 to BNPDL 20090825BQX
Percent Service lost with proposal: 2.1 to BNPDL 20090825BQX

Worst case new IX 2.1463% Scenario 2

Proposed station is MX
2A PR WRIO PONCE USERRECORD01 APP

Proposal MX with group in scenario 2 of station 1

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
02	NEW	SAN JUAN PR	BNPDL	-20090825AWM

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	NEW	CAROLINA PR	33.0	APP	BNPDL	-20090825BQX
02	NEW	WRIO PONCE PR	57.0	APP	USERRECORD-01	

Total scenarios = 2

Result key: 3
Scenario 1 Affected station 2 NEW
Before Analysis

Results for: 2A PR SAN JUAN BNPDL 20090825AWM APP
HAAT 1.0 m, ATV ERP 0.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1045948	2660.6
not affected by terrain losses	1045948	2660.6
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: 2A PR SAN JUAN BNPDL 20090825AWM APP
HAAT 1.0 m, ATV ERP 0.3 kW

POPULATION	AREA (sq km)
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within Noise Limited Contour	1045948	2660.6
not affected by terrain losses	1045948	2660.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	55	1.0
lost to ATV IX only	55	1.0
lost to all IX	55	1.0

Potential Interfering Stations Included in above Scenario 1

2A PR WRIO PONCE USERRECORD01 APP

Percent new IX = 0.0053%

Result key: 4
 Scenario 2 Affected station 2 NEW
 Before Analysis

Results for: 2A PR SAN JUAN BNPDLV 20090825AWM APP
 HAAT 1.0 m, ATV ERP 0.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1045948	2660.6
not affected by terrain losses	1045948	2660.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	622152	1924.6
lost to ATV IX only	622152	1924.6
lost to all IX	622152	1924.6

Potential Interfering Stations Included in above Scenario 2

2A PR CAROLINA BNPDLV 20090825BQX APP

After Analysis

Results for: 2A PR SAN JUAN BNPDLV 20090825AWM APP
 HAAT 1.0 m, ATV ERP 0.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1045948	2660.6
not affected by terrain losses	1045948	2660.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	622152	1924.6
lost to ATV IX only	622152	1924.6
lost to all IX	622152	1924.6

Potential Interfering Stations Included in above Scenario 2

2A PR CAROLINA BNPDLV 20090825BQX APP
 2A PR WRIO PONCE USERRECORD01 APP

Percent new IX = 0.0000%

Worst case new IX 0.0053% Scenario 1

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
02	NEW	WRIO PONCE PR	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
02	NEW	CAROLINA PR	85.7	APP	BNPDVL -20090825BQX
02	NEW	SAN JUAN PR	57.0	APP	BNPDVL -20090825AWM

Total scenarios = 2

Result key: 5
 Scenario 1 Affected station 3 NEW
 Before Analysis

Results for: 2A PR WRIO PONCE USERRECORD01 APP
 HAAT 48.0 m, ATV ERP 0.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	336065	1819.1
not affected by terrain losses	336065	1819.1
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

Result key: 6
 Scenario 2 Affected station 3 NEW
 Before Analysis

Results for: 2A PR WRIO PONCE USERRECORD01 APP
 HAAT 48.0 m, ATV ERP 0.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	336065	1819.1
not affected by terrain losses	336065	1819.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2251	133.2
lost to ATV IX only	2251	133.2
lost to all IX	2251	133.2

Potential Interfering Stations Included in above Scenario 2

2A PR CAROLINA BNPDLV 20090825BQX APP

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