

tvstudy v2.2.5 (4uoc83)

Database: 127.0.0.1, Study: BLANK0000073718 #639, Model: Longley-Rice

Start: 2021.07.29 16:49:10

Study created: 2021.07.29 16:49:09

Study build station data: LMS TV 2021-07-14

Proposal: W23EM-D D32 LD APP 3KW SMP SIRA DA120°, PR

File number: BLANK0000073718

Facility ID: 181818

Station data: User record

Record ID: 386

Country: U.S.

Search options:

Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	W31DV-D	D31	LD	LIC	GUAYAMA, PR	BLANK0000007268	31.3 km
Yes	W31DV-D	D31	LD	CP	GUAYAMA, PR	BLANK0000059669	3.1
No	WNJX-TV	D31	DT	LIC	MAYAGUEZ, PR	BLANK0000152412	98.8
No	WNJX-TV	D31	DT	CP	MAYAGUEZ, PR	BLANK0000029719	98.8
No	W33DD-D	D31	LD	CP	TUTU, ST THOMAS, VI	BLANK0000151332	121.0
Yes	W32DV-D	D32	LD	LIC	ARROYO, PR	BLANK0000010684	31.3
Yes	WSJU-LP	D32-	LD	LIC	CEIBA, PR	BLANK0000152502	40.7
Yes	WSJU-LP	D32-	LD	CP	CEIBA, PR	BLANK0000143668	40.7
Yes	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	98.8
No	W28EQ-D	N32+	TX	LIC	UTUADO, PR	BLTT19890703IC	70.8
Yes	W32FQ-D	D32	LD	CP	CHRISTIANSTED, VI	BLANK0000112364	144.7
Yes	W44DH-D	D33	LD	CP	CAGUAS, PR	BLANK0000053906	3.7
No	WJWN-TV	D33	DT	LIC	SAN SEBASTIAN, PR	BLANK0000123459	98.8
No	W34DY-D	D33	LD	CP	VIEQUES, PR	BLANK0000143665	40.7
No	W33DD-D	D33	LD	LIC	TUTU, ST THOMAS, VI	BLANK0000010483	117.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D32
Mask: Simple
Latitude: 18 16 7.20 N (NAD83)
Longitude: 66 3 19.80 W
Height AMSL: 363.0 m
HAAT: 0.0 m
Peak ERP: 3.00 kW
Antenna: SIRA UTV-01-UTV-05 120.0 deg
Elev Pattn: Generic

50.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	279.0 m	2.8 km
45.0	0.000	289.8	6.6
90.0	0.003	245.0	11.2
135.0	0.847	277.7	39.4
180.0	0.000	143.0	6.5
225.0	0.000	-15.8	3.4
270.0	0.000	-43.1	3.4
315.0	0.000	250.1	2.8

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 178 m

Distance to Canadian border: 2947.4 km

Distance to Mexican border: 3283.0 km

Conditions at FCC monitoring station: Santa Isabel PR
Bearing: 229.1 degrees Distance: 44.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 311.4 degrees Distance: 4456.6 km

Study cell size: 0.50 km
Profile point spacing: 0.20 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BLANK0000059669 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W31DV-D	D31	LD	CP	GUAYAMA, PR	BLANK0000059669	
Undesireds:	W23EM-D	D32	LD	APP	3KW SMP SIRA DA120°, PR	BLANK0000073718	3.1 km
	WRFB	D30	DT	CP	CAROLINA, PR	BLANK0000034795	1.4
	WNJX-TV	D31	DT	LIC	MAYAGUEZ, PR	BLANK00000152412	95.7
	W33DD-D	D31	LD	CP	TUTU, ST THOMAS, VI	BLANK00000151332	124.1
	W32DV-D	D32	LD	LIC	ARROYO, PR	BLANK0000010684	30.5
	WSJU-LP	D32-	LD	LIC	CEIBA, PR	BLANK00000152502	43.8
	Service area				Terrain-limited		
	6624.0	2,226,291			5276.2	2,041,920	
					IX-free, before		
					4670.3	1,927,743	
					IX-free, after		
					4659.4	1,923,293	
					Percent New IX		
					0.23	0.23	
Undesired					Total IX	Unique IX, before	Unique IX, after
W23EM-D D32 LD APP					17.7	6,927	10.8 4,450
WRFB D30 DT CP					147.7	111,091	117.6 107,964
WNJX-TV D31 DT LIC					356.3	4,652	339.1 1,544
W33DD-D D31 LD CP					138.7	1,561	98.1 1,542
W32DV-D D32 LD LIC					0.7	0	0.2 0
WSJU-LP D32- LD LIC					39.1	0	1.7 0

Interference to BLANK0000059669 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W31DV-D	D31	LD	CP	GUAYAMA, PR	BLANK0000059669	
Undesireds:	W23EM-D	D32	LD	APP	3KW SMP SIRA DA120°, PR	BLANK0000073718	3.1 km
	WRFB	D30	DT	CP	CAROLINA, PR	BLANK0000034795	1.4
	WNJX-TV	D31	DT	CP	MAYAGUEZ, PR	BLANK0000029719	95.7
	W33DD-D	D31	LD	CP	TUTU, ST THOMAS, VI	BLANK00000151332	124.1
	W32DV-D	D32	LD	LIC	ARROYO, PR	BLANK0000010684	30.5
	WSJU-LP	D32-	LD	LIC	CEIBA, PR	BLANK00000152502	43.8
	Service area				Terrain-limited		
	6624.0	2,226,291			5276.2	2,041,920	
					IX-free, before		
					4670.3	1,927,743	
					IX-free, after		
					4659.4	1,923,293	
					Percent New IX		
					0.23	0.23	
Undesired					Total IX	Unique IX, before	Unique IX, after
W23EM-D D32 LD APP					17.7	6,927	10.8 4,450

WRFB D30 DT CP	147.7	111,091	117.6	107,964	111.0	105,487
WNJX-TV D31 DT CP	356.3	4,652	339.1	1,544	339.1	1,544
W33DD-D D31 LD CP	138.7	1,561	98.1	1,542	97.8	1,542
W32DV-D D32 LD LIC	0.7	0	0.2	0	0.2	0
WSJU-LP D32- LD LIC	39.1	0	1.7	0	1.7	0

Interference to BLANK0000059669 CP scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W31DV-D	D31	LD	CP	GUAYAMA, PR	BLANK0000059669	
Undesireds:	W23EM-D	D32	LD	APP	3KW SMP SIRA DA120°, PR	BLANK0000073718	3.1 km
	WRFB	D30	DT	CP	CAROLINA, PR	BLANK0000034795	1.4
	WNJX-TV	D31	DT	LIC	MAYAGUEZ, PR	BLANK0000152412	95.7
	W33DD-D	D31	LD	CP	TUTU, ST THOMAS, VI	BLANK0000151332	124.1
	W32DV-D	D32	LD	LIC	ARROYO, PR	BLANK0000010684	30.5
	WSJU-LP	D32-	LD	CP	CEIBA, PR	BLANK0000143668	43.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
6624.0 2,226,291		5276.2 2,041,920		4670.3 1,927,743		4659.4 1,923,293	0.23 0.23

Undesired	Total IX	Unique IX, before	Unique IX, after
W23EM-D D32 LD APP 17.7	6,927	10.8	4,450
WRFB D30 DT CP 147.7	111,091	117.6	107,964
WNJX-TV D31 DT LIC 356.3	4,652	339.1	1,544
W33DD-D D31 LD CP 138.7	1,561	98.1	1,542
W32DV-D D32 LD LIC 0.7	0	0.2	0
WSJU-LP D32- LD CP 39.1	0	1.7	0

Interference to BLANK0000059669 CP scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W31DV-D	D31	LD	CP	GUAYAMA, PR	BLANK0000059669	
Undesireds:	W23EM-D	D32	LD	APP	3KW SMP SIRA DA120°, PR	BLANK0000073718	3.1 km
	WRFB	D30	DT	CP	CAROLINA, PR	BLANK0000034795	1.4
	WNJX-TV	D31	DT	CP	MAYAGUEZ, PR	BLANK0000029719	95.7
	W33DD-D	D31	LD	CP	TUTU, ST THOMAS, VI	BLANK0000151332	124.1
	W32DV-D	D32	LD	LIC	ARROYO, PR	BLANK0000010684	30.5
	WSJU-LP	D32-	LD	CP	CEIBA, PR	BLANK0000143668	43.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
6624.0 2,226,291	5276.2 2,041,920	4670.3 1,927,743	4659.4 1,923,293	0.23 0.23

Undesired	Total IX	Unique IX, before	Unique IX, after
W23EM-D D32 LD APP	17.7 6,927	10.8 4,450	
WRFB D30 DT CP	147.7 111,091	117.6 107,964	111.0 105,487
WNJX-TV D31 DT CP	356.3 4,652	339.1 1,544	339.1 1,544
W33DD-D D31 LD CP	138.7 1,561	98.1 1,542	97.8 1,542
W32DV-D D32 LD LIC	0.7 0	0.2 0	0.2 0
WSJU-LP D32- LD CP	39.1 0	1.7 0	1.7 0

Interference to BLANK0000010684 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W32DV-D	D32	LD	LIC	ARROYO, PR	BLANK0000010684	
Undesireds:	W23EM-D	D32	LD	APP	3KW SMP SIRA DA120°, PR	BLANK0000073718	31.3 km
	W31DV-D	D31	LD	LIC	GUAYAMA, PR	BLANK0000007268	0.0
	WNJX-TV	D31	DT	LIC	MAYAGUEZ, PR	BLANK0000152412	94.2
	WSJU-LP	D32-	LD	LIC	CEIBA, PR	BLANK0000152502	56.1
	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	94.2
	W32FQ-D	D32	LD	CP	CHRISTIANSTED, VI	BLANK0000112364	140.9
	WJWN-TV	D33	DT	LIC	SAN SEBASTIAN, PR	BLANK0000123459	94.2
	W33DD-D	D33	LD	LIC	TUTU, ST THOMAS, VI	BLANK0000010483	128.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
5528.7 258,719	5175.1 226,866	1715.1 218,021	1714.6 218,021	0.03 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W23EM-D D32 LD APP	5.9 0	0.5 0	
W31DV-D D31 LD LIC	0.7 201	0.7 201	0.7 201
WSJU-LP D32- LD LIC	14.6 0	3.5 0	3.5 0
WIPM-TV D32 DT CP	3450.6 8,644	3440.8 8,644	3440.8 8,644
W32FQ-D D32 LD CP	14.3 0	2.5 0	2.2 0
WJWN-TV D33 DT LIC	0.7 0	0.0 0	0.0 0

Interference to BLANK0000010684 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W32DV-D	D32	LD	LIC	ARROYO, PR	BLANK0000010684	

Undesireds:	W23EM-D	D32	LD	APP	3KW SMP SIRA DA120°, PR	BLANK0000073718	31.3 km
	WNJX-TV	D31	DT	LIC	MAYAGUEZ, PR	BLANK0000152412	94.2
	WSJU-LP	D32-	LD	LIC	CEIBA, PR	BLANK0000152502	56.1
	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	94.2
	W32FQ-D	D32	LD	CP	CHRISTIANSTED, VI	BLANK0000112364	140.9
	WJWN-TV	D33	DT	LIC	SAN SEBASTIAN, PR	BLANK0000123459	94.2
	W33DD-D	D33	LD	LIC	TUTU, ST THOMAS, VI	BLANK0000010483	128.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
5528.7	258,719	5175.1	226,866	1715.8	218,222	1715.3	218,222	0.03 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
W23EM-D D32 LD APP	5.9	0		0.5 0
WSJU-LP D32- LD LIC	14.6	0	3.5 0	3.5 0
WIPM-TV D32 DT CP	3450.6	8,644	3440.8 8,644	3440.8 8,644
W32FQ-D D32 LD CP	14.3	0	2.5 0	2.2 0
WJWN-TV D33 DT LIC	0.7	0	0.0 0	0.0 0

Interference to BLANK0000010684 LIC scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W32DV-D	D32	LD	LIC	ARROYO, PR	BLANK0000010684	

Undesireds:	W23EM-D	D32	LD	APP	3KW SMP SIRA DA120°, PR	BLANK0000073718	31.3 km
	W31DV-D	D31	LD	LIC	GUAYAMA, PR	BLANK0000007268	0.0
	WNJX-TV	D31	DT	LIC	MAYAGUEZ, PR	BLANK0000152412	94.2
	WSJU-LP	D32-	LD	CP	CEIBA, PR	BLANK0000143668	56.1
	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	94.2
	W32FQ-D	D32	LD	CP	CHRISTIANSTED, VI	BLANK0000112364	140.9
	WJWN-TV	D33	DT	LIC	SAN SEBASTIAN, PR	BLANK0000123459	94.2
	W33DD-D	D33	LD	LIC	TUTU, ST THOMAS, VI	BLANK0000010483	128.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
5528.7	258,719	5175.1	226,866	1715.1	218,021	1714.6	218,021	0.03 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
W23EM-D D32 LD APP	5.9	0		0.5 0
W31DV-D D31 LD LIC	0.7	201	0.7 201	0.7 201
WSJU-LP D32- LD CP	14.6	0	3.5 0	3.5 0
WIPM-TV D32 DT CP	3450.6	8,644	3440.8 8,644	3440.8 8,644
W32FQ-D D32 LD CP	14.3	0	2.5 0	2.2 0
WJWN-TV D33 DT LIC	0.7	0	0.0 0	0.0 0

Interference to BLANK0000010684 LIC scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W32DV-D	D32	LD	LIC	ARROYO, PR	BLANK0000010684	
Undesireds:	W23EM-D	D32	LD	APP	3KW SMP SIRA DA120°, PR	BLANK0000073718	31.3 km
	WNJX-TV	D31	DT	LIC	MAYAGUEZ, PR	BLANK0000152412	94.2
	WSJU-LP	D32-	LD	CP	CEIBA, PR	BLANK0000143668	56.1
	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	94.2
	W32FQ-D	D32	LD	CP	CHRISTIANSTED, VI	BLANK0000112364	140.9
	WJWN-TV	D33	DT	LIC	SAN SEBASTIAN, PR	BLANK0000123459	94.2
	W33DD-D	D33	LD	LIC	TUTU, ST THOMAS, VI	BLANK0000010483	128.9
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	5528.7	258,719	5175.1	226,866	1715.8	218,222	1715.3 218,222 0.03 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
W23EM-D D32 LD APP				5.9 0		0.5 0	
WSJU-LP D32- LD CP				14.6 0	3.5 0	3.5 0	
WIPM-TV D32 DT CP				3450.6 8,644	3440.8 8,644	3440.8 8,644	
W32FQ-D D32 LD CP				14.3 0	2.5 0	2.2 0	
WJWN-TV D33 DT LIC				0.7 0	0.0 0	0.0 0	

Interference to BLANK0000152502 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WSJU-LP	D32-	LD	LIC	CEIBA, PR	BLANK0000152502	
Undesireds:	W23EM-D	D32	LD	APP	3KW SMP SIRA DA120°, PR	BLANK0000073718	40.7 km
	W31DV-D	D31	LD	LIC	GUAYAMA, PR	BLANK0000007268	56.1
	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	139.4
	W32FQ-D	D32	LD	CP	CHRISTIANSTED, VI	BLANK0000112364	109.0
	W33DD-D	D33	LD	LIC	TUTU, ST THOMAS, VI	BLANK0000010483	76.7
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	2573.5	100,087	2464.7	82,777	2446.5	82,570	2438.6 81,809 0.32 0.92
Undesired				Total IX	Unique IX, before	Unique IX, after	
W23EM-D D32 LD APP				7.9 761		7.9 761	
WIPM-TV D32 DT CP				13.8 0	11.6 0	11.6 0	

W32FQ-D D32 LD CP	5.9	207	4.2	207	4.2	207
W33DD-D D33 LD LIC	0.7	0	0.2	0	0.2	0

Interference to BLANK0000152502 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WSJU-LP	D32-	LD	LIC	CEIBA, PR	BLANK0000152502	
Undesireds:	W23EM-D	D32	LD	APP	3KW SMP SIRA DA120°, PR	BLANK0000073718	40.7 km
	W31DV-D	D31	LD	LIC	GUAYAMA, PR	BLANK0000007268	56.1
	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	139.4
	W32FQ-D	D32	LD	CP	CHRISTIANSTED, VI	BLANK0000112364	109.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
2573.5	100,087	2464.7	82,777	2446.7
		82,570	2438.8	81,809
				0.32
				0.92

Undesired	Total IX	Unique IX, before	Unique IX, after
W23EM-D D32 LD APP	7.9	761	7.9
WIPM-TV D32 DT CP	13.8	0	12.1
W32FQ-D D32 LD CP	5.9	207	4.2

Interference to BLANK0000143668 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WSJU-LP	D32-	LD	CP	CEIBA, PR	BLANK0000143668	
Undesireds:	W23EM-D	D32	LD	APP	3KW SMP SIRA DA120°, PR	BLANK0000073718	40.7 km
	W31DV-D	D31	LD	LIC	GUAYAMA, PR	BLANK0000007268	56.1
	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	139.4
	W32FQ-D	D32	LD	CP	CHRISTIANSTED, VI	BLANK0000112364	109.0
	W33DD-D	D33	LD	LIC	TUTU, ST THOMAS, VI	BLANK0000010483	76.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
2573.5	100,087	2464.7	82,777	2446.5
		82,570	2438.6	81,809
				0.32
				0.92

Undesired	Total IX	Unique IX, before	Unique IX, after
W23EM-D D32 LD APP	7.9	761	7.9
WIPM-TV D32 DT CP	13.8	0	11.6
W32FQ-D D32 LD CP	5.9	207	4.2
W33DD-D D33 LD LIC	0.7	0	0.2

Interference to BLANK0000143668 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WSJU-LP	D32-	LD	CP	CEIBA, PR	BLANK0000143668	
Undesireds:	W23EM-D	D32	LD	APP	3KW SMP SIRA DA120°, PR	BLANK0000073718	40.7 km
	W31DV-D	D31	LD	LIC	GUAYAMA, PR	BLANK0000007268	56.1
	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	139.4
	W32FQ-D	D32	LD	CP	CHRISTIANSTED, VI	BLANK0000112364	109.0
	Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	2573.5	100,087		2464.7	82,777	2446.7 82,570	2438.8 81,809 0.32 0.92
Undesired				Total IX	Unique IX, before	Unique IX, after	
W23EM-D D32 LD APP			7.9	761		7.9 761	
WIPM-TV D32 DT CP			13.8	0	12.1 0	12.1 0	
W32FQ-D D32 LD CP			5.9	207	4.2 207	4.2 207	

Interference to BLANK0000024551 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	
Undesireds:	W23EM-D	D32	LD	APP	3KW SMP SIRA DA120°, PR	BLANK0000073718	98.8 km
	WNJX-TV	D31	DT	LIC	MAYAGUEZ, PR	BLANK0000152412	0.1
	WJWN-TV	D33	DT	LIC	SAN SEBASTIAN, PR	BLANK0000123459	0.1
	Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	44277.1	2,196,114		43805.5	1,853,675	43801.0 1,852,949	43796.6 1,844,701 0.01 0.45
Undesired				Total IX	Unique IX, before	Unique IX, after	
W23EM-D D32 LD APP			4.4	8,248		4.4 8,248	
WNJX-TV D31 DT LIC			2.0	96	1.2 95	1.2 95	
WJWN-TV D33 DT LIC			3.2	631	2.5 630	2.5 630	

Interference to BLANK0000024551 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	

Undesireds:	W23EM-D	D32	LD	APP	3KW SMP SIRA DA120°, PR	BLANK0000073718	98.8 km
	WNJX-TV	D31	DT	CP	MAYAGUEZ, PR	BLANK0000029719	0.1
	WJWN-TV	D33	DT	LIC	SAN SEBASTIAN, PR	BLANK0000123459	0.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
44277.1	2,196,114	43805.5	1,853,675	43801.0	1,852,949	43796.6	1,844,701	0.01 0.45

Undesired		Total IX	Unique IX, before	Unique IX, after
W23EM-D D32 LD APP	4.4	8,248	4.4	8,248
WNJX-TV D31 DT CP	2.0	96	1.2	95
WJWN-TV D33 DT LIC	3.2	631	2.5	630

Interference to BLANK0000112364 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W32FQ-D	D32	LD	CP	CHRISTIANSTED, VI	BLANK0000112364	

Undesireds:	W23EM-D	D32	LD	APP	3KW SMP SIRA DA120°, PR	BLANK0000073718	144.7 km
	W31DV-D	D31	LD	LIC	GUAYAMA, PR	BLANK0000007268	140.9
	W32DV-D	D32	LD	LIC	ARROYO, PR	BLANK0000010684	140.9
	WSJU-LP	D32-	LD	LIC	CEIBA, PR	BLANK0000152502	109.0
	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	235.1
	W33DD-D	D33	LD	LIC	TUTU, ST THOMAS, VI	BLANK0000010483	68.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
5649.9	50,601	5593.8	48,991	5587.4	48,965	5586.6	48,965	0.01 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
W23EM-D D32 LD APP	1.2	0	0.7	0
W32DV-D D32 LD LIC	1.7	0	0.5	0
WIPM-TV D32 DT CP	3.7	15	2.0	15
W33DD-D D33 LD LIC	3.2	11	2.0	11

Interference to BLANK0000112364 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W32FQ-D	D32	LD	CP	CHRISTIANSTED, VI	BLANK0000112364	

Undesireds:	W23EM-D	D32	LD	APP	3KW SMP SIRA DA120°, PR	BLANK0000073718	144.7 km
	W31DV-D	D31	LD	LIC	GUAYAMA, PR	BLANK0000007268	140.9
	W32DV-D	D32	LD	LIC	ARROYO, PR	BLANK0000010684	140.9

WSJU-LP	D32-	LD	LIC	CEIBA, PR	BLANK0000152502	109.0
WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	235.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
5649.9 50,601	5593.8 48,991	5589.4 48,976	5588.6 48,976	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W23EM-D D32 LD APP	1.2 0		0.7 0
W32DV-D D32 LD LIC	1.7 0	0.7 0	0.5 0
WIPM-TV D32 DT CP	3.7 15	2.7 15	2.7 15

Interference to BLANK0000053906 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W44DH-D	D33	LD	CP	CAGUAS, PR	BLANK0000053906	
Undesireds:	W23EM-D	D32	LD	APP	3KW SMP SIRA DA120°, PR	BLANK0000073718	3.7 km
	W32DV-D	D32	LD	LIC	ARROYO, PR	BLANK0000010684	30.7
	WSJU-LP	D32-	LD	LIC	CEIBA, PR	BLANK0000152502	37.4
	WJWN-TV	D33	DT	LIC	SAN SEBASTIAN, PR	BLANK0000123459	102.0
	W33DD-D	D33	LD	LIC	TUTU, ST THOMAS, VI	BLANK0000010483	114.1
	WIDP	D34	DT	LIC	GUAYAMA, PR	BLANK0000078426	18.2
	W34ED-D	D34	LD	LIC	TRUJILLO ALTO, PR	BLDTL20140404AAY	12.7
	W34DY-D	D34	LD	LIC	VIEQUES, PR	BLANK0000010492	63.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
1945.5 1,407,949	1569.2 1,105,188	1542.6 1,100,644	1522.9 1,087,241	1.28 1.22

Undesired	Total IX	Unique IX, before	Unique IX, after
W23EM-D D32 LD APP	23.6 14,130		19.7 13,403
W32DV-D D32 LD LIC	0.7 0	0.2 0	0.2 0
WJWN-TV D33 DT LIC	3.7 1,653	1.2 366	0.7 366
W33DD-D D33 LD LIC	16.3 2,180	8.1 1,161	6.7 970
WIDP D34 DT LIC	14.3 2,105	5.7 980	5.4 980
W34ED-D D34 LD LIC	2.5 912	0.7 0	0.5 0
W34DY-D D34 LD LIC	0.5 106	0.0 0	0.0 0

Interference to BLANK0000053906 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W44DH-D	D33	LD	CP	CAGUAS, PR	BLANK0000053906	

Undesireds:	W23EM-D	D32	LD	APP	3KW SMP SIRA DA120°, PR	BLANK0000073718	3.7 km
	W32DV-D	D32	LD	LIC	ARROYO, PR	BLANK0000010684	30.7
	WSJU-LP	D32-	LD	LIC	CEIBA, PR	BLANK0000152502	37.4
	WJWN-TV	D33	DT	LIC	SAN SEBASTIAN, PR	BLANK0000123459	102.0
	W34DY-D	D33	LD	CP	VIEQUES, PR	BLANK0000143665	37.4
	W33DD-D	D33	LD	LIC	TUTU, ST THOMAS, VI	BLANK0000010483	114.1
	WIDP	D34	DT	LIC	GUAYAMA, PR	BLANK0000078426	18.2
	W34ED-D	D34	LD	LIC	TRUJILLO ALTO, PR	BLDTL20140404AAY	12.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
1945.5 1,407,949	1569.2 1,105,188	1541.6 1,100,644	1522.1 1,087,241	1.26 1.22

Undesired	Total IX	Unique IX, before	Unique IX, after
W23EM-D D32 LD APP	23.6 14,130	19.5 13,403	
W32DV-D D32 LD LIC	0.7 0	0.2 0	
WJWN-TV D33 DT LIC	3.7 1,653	1.2 366	
W34DY-D D33 LD CP	7.1 454	1.0 0	
W33DD-D D33 LD LIC	16.3 2,180	5.7 717	
WIDP D34 DT LIC	14.3 2,105	5.7 1,086	
W34ED-D D34 LD LIC	2.5 912	0.7 0	

Interference to proposal scenario 1
10.67% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W23EM-D	D32	LD	APP	3KW SMP SIRA DA120°, PR	BLANK0000073718	
Undesireds:	W31DV-D	D31	LD	LIC	GUAYAMA, PR	BLANK0000007268	31.3 km
	WNJX-TV	D31	DT	LIC	MAYAGUEZ, PR	BLANK0000152412	98.8
	WSJU-LP	D32-	LD	LIC	CEIBA, PR	BLANK0000152502	40.7
	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	98.8
	W32FQ-D	D32	LD	CP	CHRISTIANSTED, VI	BLANK0000112364	144.7
	W44DH-D	D33	LD	CP	CAGUAS, PR	BLANK0000053906	3.7
	W33DD-D	D33	LD	LIC	TUTU, ST THOMAS, VI	BLANK0000010483	117.3

Service area	Terrain-limited	IX-free	Percent IX
842.8 362,024	576.9 305,124	516.5 272,555	10.46 10.67

Undesired	Total IX	Unique IX	Prcnt Unique IX
WSJU-LP D32- LD LIC	35.7 1,655	26.1 1,523	4.53 0.50
WIPM-TV D32 DT CP	2.5 625	2.2 625	0.38 0.20

W32FQ-D D32 LD CP	16.5	2,949	6.9	2,817	1.20	0.92
W44DH-D D33 LD CP	15.5	27,472	15.5	27,472	2.69	9.00

Interference to proposal scenario 2
13.63% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W23EM-D	D32	LD	APP	3KW SMP SIRA DA120°, PR	BLANK0000073718	
Undesireds:	W31DV-D	D31	LD	CP	GUAYAMA, PR	BLANK0000059669	3.1 km
	WNJX-TV	D31	DT	LIC	MAYAGUEZ, PR	BLANK0000152412	98.8
	WSJU-LP	D32-	LD	LIC	CEIBA, PR	BLANK0000152502	40.7
	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	98.8
	W32FQ-D	D32	LD	CP	CHRISTIANSTED, VI	BLANK0000112364	144.7
	W44DH-D	D33	LD	CP	CAGUAS, PR	BLANK0000053906	3.7
	W33DD-D	D33	LD	LIC	TUTU, ST THOMAS, VI	BLANK0000010483	117.3

Service area	Terrain-limited	IX-free	Percent IX
842.8	362,024	576.9	305,124
		503.7	263,524
			12.68
			13.63

Undesired	Total IX	Unique IX	Prcnt Unique IX
W31DV-D D31 LD CP	25.6	33,959	12.8
WSJU-LP D32- LD LIC	35.7	1,655	25.6
WIPM-TV D32 DT CP	2.5	625	1.0
W32FQ-D D32 LD CP	16.5	2,949	5.9
W44DH-D D33 LD CP	15.5	27,472	5.4
		9,031	2.22
		1,327	4.44
		192	0.17
		1,419	1.03
		4,571	0.94
			2.96
			0.43
			0.06
			0.47
			1.50

Interference to proposal scenario 3
10.67% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W23EM-D	D32	LD	APP	3KW SMP SIRA DA120°, PR	BLANK0000073718	
Undesireds:	W31DV-D	D31	LD	LIC	GUAYAMA, PR	BLANK0000007268	31.3 km
	WNJX-TV	D31	DT	LIC	MAYAGUEZ, PR	BLANK0000152412	98.8
	WSJU-LP	D32-	LD	CP	CEIBA, PR	BLANK0000143668	40.7
	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	98.8
	W32FQ-D	D32	LD	CP	CHRISTIANSTED, VI	BLANK0000112364	144.7
	W44DH-D	D33	LD	CP	CAGUAS, PR	BLANK0000053906	3.7
	W33DD-D	D33	LD	LIC	TUTU, ST THOMAS, VI	BLANK0000010483	117.3

Service area		Terrain-limited		IX-free	Percent IX
842.8	362,024	576.9	305,124	516.5	272,555 10.46 10.67

Undesired		Total IX		Unique IX	Prcnt Unique IX
WSJU-LP D32- LD CP	35.7	1,655	26.1	1,523	4.53 0.50
WIPM-TV D32 DT CP	2.5	625	2.2	625	0.38 0.20
W32FQ-D D32 LD CP	16.5	2,949	6.9	2,817	1.20 0.92
W44DH-D D33 LD CP	15.5	27,472	15.5	27,472	2.69 9.00

Interference to proposal scenario 4
13.63% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W23EM-D	D32	LD	APP	3KW SMP SIRA DA120°, PR	BLANK0000073718	
Undesireds:	W31DV-D	D31	LD	CP	GUAYAMA, PR	BLANK0000059669	3.1 km
	WNJX-TV	D31	DT	LIC	MAYAGUEZ, PR	BLANK0000152412	98.8
	WSJU-LP	D32-	LD	CP	CEIBA, PR	BLANK0000143668	40.7
	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	98.8
	W32FQ-D	D32	LD	CP	CHRISTIANSTED, VI	BLANK0000112364	144.7
	W44DH-D	D33	LD	CP	CAGUAS, PR	BLANK0000053906	3.7
	W33DD-D	D33	LD	LIC	TUTU, ST THOMAS, VI	BLANK0000010483	117.3

Service area		Terrain-limited		IX-free	Percent IX
842.8	362,024	576.9	305,124	503.7	263,524 12.68 13.63

Undesired		Total IX		Unique IX	Prcnt Unique IX
W31DV-D D31 LD CP	25.6	33,959	12.8	9,031	2.22 2.96
WSJU-LP D32- LD CP	35.7	1,655	25.6	1,327	4.44 0.43
WIPM-TV D32 DT CP	2.5	625	1.0	192	0.17 0.06
W32FQ-D D32 LD CP	16.5	2,949	5.9	1,419	1.03 0.47
W44DH-D D33 LD CP	15.5	27,472	5.4	4,571	0.94 1.50