W32DV-D CP MOD IX TVSTUDY

tvstudy v2.2.5 (4uoc83)
Database: 127.0.0.1, Study: BLANK0000053616 #1580, Model: Longley-Rice
Start: 2019.01.29 21:54:22

Study created: 2019.01.29 21:54:21

Study build station data: LMS TV 2019-01-26

    Proposal: W32DV-D D17 LD CP ARROYO, PR
 File number: BLANK0000053616
 Facility ID: 182687
Station data: User record
   Record ID: 677
     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	W49CZ-D	D16	LD	CP	AGUADA, PR	BLANK0000053241	118.2 km
Yes	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	48.2
Yes	W16CW-D	D16	LD	LIC	VILLALBA, PR	BLDTL20140916ACI	50.5
Yes	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV	118.8
No	W17DL-D	D17	LD	CP	TOA BAJA, PR	BLANK0000036597	31.9
No	W17DL-D	D17	LD	LIC	TOA BAJA, PR	BLDTL20140404AAW	31.9
Yes	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	129.0
No	WSJP-LD	D18	LD	LIC	AQUADILLA, PR	BLDTL20120626AAB	119.5
No	W18DZ-D	D18	LD	LIC	CEIBA, PR	BLANK0000008489	55.9
No	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	37.4
Yes	W18DQ-D	D18	LD	LIC	SANTA ISABEL, PR	BLANK0000010493	58.2
No	W18DQ-D	D18	LD	CP	SANTA ISABEL, PR	BLANK0000036646	53.6
No	W18DQ-D	D18	LD	APP	SANTA ISABEL, PR	BLANK0000064431	53.6
No	W24DO-D	D18	LD	CP	SION FARM, ST CROIX, VI	BLANK0000053905	140.9
No	WSJX-LP	N24z	TX	LIC	AQUADILLA, PR	BLTTL20050407AAH	119.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

```
    Channel: D17
       Mask: Full Service
   Latitude:  17 59 28.00 N (NAD83)
  Longitude:  66  6 23.70 W
Height AMSL: 286.5 m
       HAAT: 0.0 m
   Peak ERP: 15.0 kW
    Antenna: PSI-PSILP8ARA (ID 40190) 0.0 deg
Elev Pattrn: Generic
  Elec Tilt: 0.50
```

49.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	-169.0 m	31.3 km
45.0	13.0	-101.6	30.6
90.0	12.2	219.8	52.1
135.0	0.013	286.0	19.9
180.0	0.013	285.2	19.9
225.0	0.013	281.0	19.7
270.0	12.2	212.2	51.7
315.0	13.0	-231.0	30.6

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m   Computed HAAT: 98 m

Distance to Canadian border: 2978.1 km

Distance to Mexican border: 3289.0 km

Conditions at FCC monitoring station: Santa Isabel PR
Bearing: 273.2 degrees   Distance: 28.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 311.7 degrees   Distance: 4473.0 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

Study cell size: 0.50 km
Profile point spacing: 0.10 km

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

Interference to BLANK0000025646 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	
Undesireds:	W32DV-D	D17	LD	CP	ARROYO, PR	BLANK0000053616	48.2 km
	WMTJ	D15	DT	CP	FAJARDO, PR	BLANK0000028080	0.1
	WQQZ-CD	D16	DC	BL	PONCE, PR	DTVBL32142	104.1
	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV	146.0
	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	89.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
27215.0	2,904,896	25846.9	2,639,737	25327.3	2,634,156	25316.7	2,634,094	0.04	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
W32DV-D D17 LD CP	63.7	62			10.6	62
WMTJ D15 DT CP	23.4	5,573	13.1	5,573	13.1	5,573
WQQZ-CD D16 DC BL	505.0	0	494.7	0	441.6	0
WVEO D17 DT LIC	0.7	0	0.7	0	0.7	0
WVXF D17 DT LIC	0.7	8	0.7	8	0.7	8

Interference to BLANK0000025646 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	
Undesireds:	W32DV-D	D17	LD	CP	ARROYO, PR	BLANK0000053616	48.2 km

	WMTJ	D15	DT	LIC	FAJARDO, PR	BLANK0000065487	0.1
	WQQZ-CD	D16	DC	BL	PONCE, PR	DTVBL32142	104.1
	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV	146.0
	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	89.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
27215.0	2,904,896	25846.9	2,639,737	25327.3	2,634,156	25316.7	2,634,094	0.04	0.00

Undesired		Total IX	Unique IX, before		Unique IX, after	
W32DV-D D17 LD CP	63.7	62			10.6	62
WMTJ D15 DT LIC	23.4	5,573	13.1	5,573	13.1	5,573
WQQZ-CD D16 DC BL	505.0	0	494.7	0	441.6	0
WVEO D17 DT LIC	0.7	0	0.7	0	0.7	0
WVXF D17 DT LIC	0.7	8	0.7	8	0.7	8

Interference to BLDTL20140916ACI LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W16CW-D	D16	LD	LIC	VILLALBA, PR	BLDTL20140916ACI	
Undesireds:	W32DV-D	D17	LD	CP	ARROYO, PR	BLANK0000053616	50.5 km
	WMTJ	D15	DT	CP	FAJARDO, PR	BLANK0000028080	82.0
	W49CZ-D	D16	LD	CP	AGUADA, PR	BLANK0000053241	67.8
	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	82.0
	W17DL-D	D17	LD	CP	TOA BAJA, PR	BLANK0000036597	48.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
8525.6	660,592	8260.2	587,700	7518.4	584,940	7517.1	584,204	0.02	0.13

Undesired		Total IX	Unique IX, before		Unique IX, after	
W32DV-D D17 LD CP	1.2	736			1.2	736
W49CZ-D D16 LD CP	4.2	270	3.0	270	3.0	270
WRUA D16 DT CP	738.9	2,490	737.6	2,490	737.6	2,490

Interference to BLCDT20071116ACV LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV	

Undesireds:	W32DV-D	D17	LD	CP	ARROYO, PR	BLANK0000053616	118.8 km
	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	146.0
	WQQZ-CD	D16	DC	BL	PONCE, PR	DTVBL32142	52.4
	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	235.4
	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	96.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
17642.0	1,152,154	16935.5	978,255	16786.4	973,153	16280.5	972,797	3.01	0.04

Undesired	Total IX	Unique IX, before		Unique IX, after	
W32DV-D D17 LD CP	596.4	356		505.8	356
WRUA D16 DT CP	11.8	2,006	4.9	1,282	4.9	1,282
WQQZ-CD D16 DC BL	90.8	0	90.4	0	0.2	0
WVXF D17 DT LIC	0.5	0	0.0	0	0.0	0
WECN D18 DT LIC	53.4	3,820	46.5	3,096	46.5	3,096

Interference to BLCDT20090623ABB LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	
Undesireds:	W32DV-D	D17	LD	CP	ARROYO, PR	BLANK0000053616	129.0 km
	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	89.6
	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV	235.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
11226.5	84,402	11023.5	79,501	11002.4	79,501	10965.7	79,501	0.33	0.00

Undesired	Total IX	Unique IX, before		Unique IX, after	
W32DV-D D17 LD CP	41.6	0		36.7	0
WRUA D16 DT CP	5.9	0	5.9	0	5.9	0
WVEO D17 DT LIC	15.2	0	15.2	0	10.3	0

Interference to BLANK0000010493 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W18DQ-D	D18	LD	LIC	SANTA ISABEL, PR	BLANK0000010493	
Undesireds:	W32DV-D	D17	LD	CP	ARROYO, PR	BLANK0000053616	58.2 km

	W17DL-D	D17	LD	CP	TOA BAJA, PR	BLANK0000036597	63.0
	WSJP-LD	D18	LD	LIC	AQUADILLA, PR	BLDTL20120626AAB	65.9
	WQTO	D19	DD	CP	PONCE, PR	BLANK0000028318	10.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
5535.4	550,502	5253.6	470,246	5045.1	442,807	5042.7	442,095	0.05	0.16

Undesired	Total IX		Unique IX, before		Unique IX, after	
W32DV-D D17 LD CP	3.0	712			2.5	712
WSJP-LD D18 LD LIC	0.2	0	0.0	0	0.0	0
WQTO D19 DD CP	208.4	27,439	208.2	27,439	207.7	27,439

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W32DV-D	D17	LD	CP	ARROYO, PR	BLANK0000053616	
Undesireds:	W17DL-D	D17	LD	CP	TOA BAJA, PR	BLANK0000036597	31.9 km
	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	129.0
	W18DZ-D	D18	LD	LIC	CEIBA, PR	BLANK0000008489	55.9
	W18DQ-D	D18	LD	LIC	SANTA ISABEL, PR	BLANK0000010493	58.2

Service area		Terrain-limited		IX-free		Percent IX	
3992.1	681,917	3519.1	620,714	3486.5	619,574	0.93	0.18

Undesired	Total IX		Unique IX		Prcnt Unique IX	
W17DL-D D17 LD CP	0.2	0	0.2	0	0.01	0.00
WVXF D17 DT LIC	29.8	96	20.0	96	0.57	0.02
W18DZ-D D18 LD LIC	10.9	0	1.0	0	0.03	0.00
W18DQ-D D18 LD LIC	1.5	1,044	1.5	1,044	0.04	0.17

Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W32DV-D	D17	LD	CP	ARROYO, PR	BLANK0000053616	
Undesireds:	W17DL-D	D17	LD	LIC	TOA BAJA, PR	BLDTL20140404AAW	31.9 km
	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	129.0
	W18DZ-D	D18	LD	LIC	CEIBA, PR	BLANK0000008489	55.9

	W18DQ-D	D18	LD	LIC	SANTA ISABEL, PR	BLANK0000010493	58.2

Service area		Terrain-limited		IX-free		Percent IX	
3992.1	681,917	3519.1	620,714	3486.5	619,574	0.93	0.18

Undesired	Total IX		Unique IX		Prcnt Unique IX	
W17DL-D D17 LD LIC	0.2	0	0.2	0	0.01	0.00
WVXF D17 DT LIC	29.8	96	20.0	96	0.57	0.02
W18DZ-D D18 LD LIC	10.9	0	1.0	0	0.03	0.00
W18DQ-D D18 LD LIC	1.5	1,044	1.5	1,044	0.04	0.17

Interference to proposal scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W32DV-D	D17	LD	CP	ARROYO, PR	BLANK0000053616	
Undesireds:	W17DL-D	D17	LD	CP	TOA BAJA, PR	BLANK0000036597	31.9 km
	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	129.0
	W18DZ-D	D18	LD	LIC	CEIBA, PR	BLANK0000008489	55.9
	W18DQ-D	D18	LD	CP	SANTA ISABEL, PR	BLANK0000036646	53.6

Service area		Terrain-limited		IX-free		Percent IX	
3992.1	681,917	3519.1	620,714	3486.5	620,618	0.93	0.02

Undesired	Total IX		Unique IX		Prcnt Unique IX	
W17DL-D D17 LD CP	0.2	0	0.2	0	0.01	0.00
WVXF D17 DT LIC	29.8	96	20.0	96	0.57	0.02
W18DZ-D D18 LD LIC	10.9	0	1.0	0	0.03	0.00
W18DQ-D D18 LD CP	1.5	0	1.5	0	0.04	0.00

Interference to proposal scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W32DV-D	D17	LD	CP	ARROYO, PR	BLANK0000053616	
Undesireds:	W17DL-D	D17	LD	LIC	TOA BAJA, PR	BLDTL20140404AAW	31.9 km
	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	129.0
	W18DZ-D	D18	LD	LIC	CEIBA, PR	BLANK0000008489	55.9
	W18DQ-D	D18	LD	CP	SANTA ISABEL, PR	BLANK0000036646	53.6

Service area		Terrain-limited		IX-free		Percent IX	
3992.1	681,917	3519.1	620,714	3486.5	620,618	0.93	0.02

Undesired	Total IX		Unique IX		Prcnt Unique IX	
W17DL-D D17 LD LIC	0.2	0	0.2	0	0.01	0.00
WVXF D17 DT LIC	29.8	96	20.0	96	0.57	0.02
W18DZ-D D18 LD LIC	10.9	0	1.0	0	0.03	0.00
W18DQ-D D18 LD CP	1.5	0	1.5	0	0.04	0.00

Interference to proposal scenario 5

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W32DV-D	D17	LD	CP	ARROYO, PR	BLANK0000053616	
Undesireds:	W17DL-D	D17	LD	CP	TOA BAJA, PR	BLANK0000036597	31.9 km
	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	129.0
	W18DZ-D	D18	LD	LIC	CEIBA, PR	BLANK0000008489	55.9
	W18DQ-D	D18	LD	APP	SANTA ISABEL, PR	BLANK0000064431	53.6

Service area		Terrain-limited		IX-free		Percent IX	
3992.1	681,917	3519.1	620,714	3486.0	620,617	0.94	0.02

Undesired	Total IX		Unique IX		Prcnt Unique IX	
W17DL-D D17 LD CP	0.2	0	0.2	0	0.01	0.00
WVXF D17 DT LIC	29.8	96	20.0	96	0.57	0.02
W18DZ-D D18 LD LIC	10.9	0	1.0	0	0.03	0.00
W18DQ-D D18 LD APP	2.0	1	2.0	1	0.06	0.00

Interference to proposal scenario 6

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W32DV-D	D17	LD	CP	ARROYO, PR	BLANK0000053616	
Undesireds:	W17DL-D	D17	LD	LIC	TOA BAJA, PR	BLDTL20140404AAW	31.9 km
	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	129.0
	W18DZ-D	D18	LD	LIC	CEIBA, PR	BLANK0000008489	55.9
	W18DQ-D	D18	LD	APP	SANTA ISABEL, PR	BLANK0000064431	53.6

Service area		Terrain-limited		IX-free		Percent IX	
3992.1	681,917	3519.1	620,714	3486.0	620,617	0.94	0.02

Undesired		Total IX		Unique IX		Prcnt Unique IX	
W17DL-D D17 LD LIC	0.2	0	0.2	0	0.01	0.00	
WVXF D17 DT LIC	29.8	96	20.0	96	0.57	0.02	
W18DZ-D D18 LD LIC	10.9	0	1.0	0	0.03	0.00	
W18DQ-D D18 LD APP	2.0	1	2.0	1	0.06	0.00	