

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: wste-dt, Model: Longley-Rice

Study created: 2020.11.02 16:18:32

Study build station data: LMS TV 2020-11-01

Proposal: WSTE-DT D7 DD APP PONCE, PR
File number: WSTE-DTS Application
Facility ID: 60341
Station data: User record
Record ID: 3374
Country: U.S.
Zone: II
Ref. lat.: 18 09 9.80 N
Ref. long.: 66 33 14.60 W
DTS sites: 5

Search options:
Non-U.S. records included

No protected stations found.

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied, DTS site # 1:

Channel: D7
Latitude: 18 2 45.00 N (NAD83)
Longitude: 66 39 15.00 W
Height AMSL: 322.9 m
HAAT: 88.0 m
Peak ERP: 25.0 kW
Antenna: DIE-THB-C2-3H/6HD-1 DC (ID 109672) 0.0 deg
Elev Pattn: DIE-THB-C2-3H/6HD-1 DC
Elec Tilt: 0.60

36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	3.28 kW	-240.6 m	45.4 km
45.0	0.000	-97.5	3.4
90.0	0.078	257.2	53.3
135.0	13.2	308.6	95.1
180.0	24.8	307.9	100.0
225.0	18.0	267.2	95.5
270.0	19.8	175.0	89.2
315.0	21.4	-259.4	57.4

Database HAAT does not agree with computed HAAT
Database HAAT: 88 m Computed HAAT: 90 m

Record parameters as studied, DTS site # 2:

Channel: D7
Latitude: 18 16 47.00 N (NAD83)
Longitude: 66 6 45.00 W
Height AMSL: 572.0 m
HAAT: 354.0 m
Peak ERP: 25.0 kW
Antenna: DIE-DCBR-C3-12/26HB-1 (ID 1006464) 0.0 deg
Elev Pattn: DIE-DCBR-C3-12/26HB-1
Elec Tilt: 1.20

36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	19.2 kW	504.7 m	112.8 km
45.0	15.7	458.6	107.9
90.0	17.6	461.6	109.2
135.0	19.9	415.3	106.6
180.0	11.4	166.4	84.8
225.0	0.284	141.6	54.1
270.0	0.265	185.7	58.0
315.0	8.29	480.2	103.8

Database HAAT does not agree with computed HAAT
Database HAAT: 354 m Computed HAAT: 352 m

Record parameters as studied, DTS site # 3:

Channel: D7
Latitude: 18 19 18.00 N (NAD83)
Longitude: 67 10 26.00 W
Height AMSL: 428.2 m
HAAT: 362.0 m
Peak ERP: 10.0 kW
Antenna: DIE-CBR-BP2SP-4HBA/8H-1 (ID 109674) 0.0 deg
Elev Pattrn: DIE-CBR-BP2SP-4HBA/8H-1
Elec Tilt: 1.00

36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	3.60 kW	413.2 m	92.4 km
45.0	3.06	319.5	84.7
90.0	3.16	279.4	82.6
135.0	5.23	322.4	89.0
180.0	8.65	427.2	100.3
225.0	1.99	425.9	88.6
270.0	0.404	408.9	75.2
315.0	0.458	409.1	76.2

Database HAAT does not agree with computed HAAT

Database HAAT: 362 m Computed HAAT: 376 m

Record parameters as studied, DTS site # 4:

Channel: D7
Latitude: 18 27 14.00 N (NAD83)
Longitude: 66 45 15.00 W
Height AMSL: 149.0 m
HAAT: 65.0 m
Peak ERP: 0.100 kW
Antenna: ADC-T7H1.3MS2S (ID 109675) 0.0 deg
Elev Pattrn: ADC-T7H1.3MS2S

36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.100 kW	149.0 m	47.7 km
45.0	0.091	149.0	47.1
90.0	0.020	129.0	34.0
135.0	0.002	18.1	10.1
180.0	0.004	-102.9	12.3
225.0	0.003	-78.5	10.8
270.0	0.029	46.8	23.7
315.0	0.089	143.7	46.3

Database HAAT does not agree with computed HAAT

Database HAAT: 65 m Computed HAAT: 57 m

Record parameters as studied, DTS site # 5:

Channel: D7
Latitude: 18 8 51.80 N (NAD83)
Longitude: 66 58 59.60 W
Height AMSL: 937.0 m
HAAT: 631.0 m
Peak ERP: 0.500 kW
Antenna: KAT-750-10085-BB-C-pol-Panel 210.0 deg
Elev Pattrn: KAT-750-10085-BB-C-POL-PANEL
Mech Tilt: 3.00 @ 210.0 deg

36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.001 kW	611.7 m	41.0 km
45.0	0.003	505.0	43.3
90.0	0.002	154.7	22.8
135.0	0.017	657.9	60.9
180.0	0.278	835.2	88.9
225.0	0.422	828.3	91.9
270.0	0.049	801.0	73.9
315.0	0.003	652.1	49.1

**DTS proposal has coverage outside reference facility and distance limit

Distance to Canadian border: 2925.8 km

Distance to Mexican border: 3170.6 km

Conditions at FCC monitoring station: Santa Isabel PR

DTS site # 1	Bearing: 98.7 degrees	Distance: 29.8 km
DTS site # 2	Bearing: 222.3 degrees	Distance: 41.2 km
DTS site # 3	Bearing: 112.5 degrees	Distance: 91.4 km
DTS site # 4	Bearing: 141.2 degrees	Distance: 63.9 km
DTS site # 5	Bearing: 103.8 degrees	Distance: 66.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

DTS site # 1	Bearing: 311.9 degrees	Distance: 4425.8 km
DTS site # 2	Bearing: 311.4 degrees	Distance: 4451.2 km
DTS site # 3	Bearing: 311.9 degrees	Distance: 4364.4 km
DTS site # 4	Bearing: 311.6 degrees	Distance: 4387.7 km
DTS site # 5	Bearing: 311.9 degrees	Distance: 4392.3 km

Study cell size: 2.00 km

Profile point spacing: 1.00 km

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

Maximum new IX to LPTV: 2.00%

No IX check failures found.