

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Sutton18d15kwTUA60T, Model: Longley-Rice

Start: 2021.06.22 10:37:01

Study created: 2021.06.22 10:37:01

Study build station data: LMS TV 2021-06-21

Proposal: W42EN-D D18 LD APP SUTTON, WV

Facility ID: 186772

Station data: User record

Record ID: 281

Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WVVA	D17	DT	LIC	BLUEFIELD, WV	BLANK0000087309	157.4 km
No	WVVA	D17	DT	CP	BLUEFIELD, WV	BLANK0000127491	157.4
No	W30CO-D	D17	LD	CP	WHEELING, WV	BLANK0000054635	160.3
No	WFWA	D18	DT	LIC	FORT WAYNE, IN	BLANK0000063130	472.2
No	WCCB	D18	DT	LIC	CHARLOTTE, NC	BLANK0000097908	372.6
No	WLFL	D18	DT	LIC	RALEIGH, NC	BLANK0000125309	379.6
No	W18EP-D	D18	LD	LIC	WEAVERVILLE, NC	BLANK0000071711	367.9
No	W18EY-D	D18	LD	CP	CANTON, OH	BLANK0000072053	203.7
No	WSTR-TV	D18	DT	LIC	CINCINNATI, OH	BLANK0000115955	336.9
No	WCBZ-CD	D18	DC	LIC	Columbus, OH	BLANK0000069165	257.1
No	WPNM-LD	N18z	TX	LIC	LIEPSIC, OH	BLTTL19990407JA	374.6
No	W18ES-D	D18	LD	LIC	MANSFIELD, OH	BLANK0000087113	278.1
No	WOIO	D18	LD	LIC	SHAKER HEIGHTS, OH	BLANK0000079849	282.0
No	WPXK-TV	D18	DT	LIC	JELICO, TN	BLANK0000081463	408.0
Yes	WLPX-TV	D18	DT	LIC	CHARLESTON, WV	BLANK0000118002	131.8
No	WBYD-CD	D19	DC	LIC	PITTSBURGH, PA	BLANK0000096151	219.0
No	WZBJ-CD	D19	DC	LIC	LYNCHBURG, VA	BLANK0000086464	194.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D18
Mask: Stringent
Latitude: 38 37 10.40 N (NAD83)
Longitude: 80 41 57.00 W
Height AMSL: 519.0 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: DIE-TUA (ID 120649) 60.0 deg
Elev Pattn: Generic

49.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.612 kW	151.4 m	32.6 km
45.0	12.3	139.9	47.2
90.0	7.31	57.8	35.2
135.0	0.059	0.1	9.2
180.0	0.078	22.0	9.9
225.0	0.041	116.7	16.0
270.0	0.037	163.0	19.3
315.0	0.060	175.5	22.3

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 103 m

Distance to Canadian border: 369.1 km

Distance to Mexican border: 2067.3 km

Conditions at FCC monitoring station: Laurel MD

Bearing: 78.5 degrees Distance: 340.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
 Bearing: 282.4 degrees Distance: 2107.1 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

Study cell size: 1.00 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%

 Interference to BLANK0000118002 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WLPX-TV	D18	DT	LIC	CHARLESTON, WV	BLANK0000118002	
Undesireds:	W42EN-D	D18	LD	APP	SUTTON, WV		131.8 km
	WVVA	D17	DT	LIC	BLUEFIELD, WV	BLANK0000087309	165.6
	WCCB	D18	DT	LIC	CHARLOTTE, NC	BLANK0000097908	383.1
	WSTR-TV	D18	DT	LIC	CINCINNATI, OH	BLANK0000115955	214.6
	WCBZ-CD	D18	DC	LIC	Columbus, OH	BLANK0000069165	190.8
	WPXK-TV	D18	DT	LIC	JELLICO, TN	BLANK0000081463	317.3
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	27536.8	1,067,717	26438.7	1,027,522	26125.8	1,018,232	26111.8 1,018,068 0.05 0.02
Undesired				Total IX	Unique IX, before		Unique IX, after
W42EN-D	D18	LD	APP	23.0	247	14.0	164
WVVA	D17	DT	LIC	13.2	418	7.1	82
WCCB	D18	DT	LIC	2.0	0	0.0	0
WSTR-TV	D18	DT	LIC	266.6	8,003	234.5	7,393
WCBZ-CD	D18	DC	LIC	34.9	333	20.0	154
						226.5	7,354
						20.0	154

WPXK-TV D18 DT LIC	33.4	1,146	16.2	1,051	16.2	1,051
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Interference to BLANK0000118002 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WLPX-TV	D18	DT	LIC	CHARLESTON, WV	BLANK0000118002	
Undesireds:	W42EN-D	D18	LD	APP	SUTTON, WV		131.8 km
	WVVA	D17	DT	CP	BLUEFIELD, WV	BLANK0000127491	165.6
	WCCB	D18	DT	LIC	CHARLOTTE, NC	BLANK0000097908	383.1
	WSTR-TV	D18	DT	LIC	CINCINNATI, OH	BLANK0000115955	214.6
	WCBZ-CD	D18	DC	LIC	Columbus, OH	BLANK0000069165	190.8
	WPXK-TV	D18	DT	LIC	JELLICO, TN	BLANK0000081463	317.3

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
27536.8 1,067,717	26438.7 1,027,522	26124.8 1,018,232	26110.7 1,018,068	0.05 0.02

Undesired	Total IX	Unique IX, before	Unique IX, after
W42EN-D D18 LD APP 23.0	247	14.0 164	
WVVA D17 DT CP 14.2	418	8.1 82	
WCCB D18 DT LIC 2.0	0	0.0 0	
WSTR-TV D18 DT LIC 266.6	8,003	234.5 7,393	
WCBZ-CD D18 DC LIC 34.9	333	20.0 154	
WPXK-TV D18 DT LIC 33.4	1,146	16.2 1,051	

Interference to proposal scenario 1
6.55% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W42EN-D	D18	LD	APP	SUTTON, WV		
Undesireds:	WLPX-TV	D18	DT	LIC	CHARLESTON, WV	BLANK0000118002	131.8 km

Service area	Terrain-limited	IX-free	Percent IX
2297.7 20,941	2037.9 18,379	1870.0 17,175	8.24 6.55

Undesired		Total IX		Unique IX	Prct Unique IX	
WLPX-TV D18 DT LIC	167.9	1,204	167.9	1,204	8.24	6.55