

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Sutton3d3kwinccl26at10f, Model: Longley-Rice

Start: 2021.09.01 13:31:25

Study created: 2021.09.01 13:31:25

Study build station data: LMS TV 2021-09-01

Proposal: W22ES-D D3 LD CP SUTTON, WV

Facility ID: 186769

Station data: User record

Record ID: 972

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	WVIR-TV	D2	DT	LIC	CHARLOTTESVILLE, VA	BLANK0000109093	172.6 km
Yes	WGGN-TV	D3	DT	LIC	SANDUSKY, OH	BLANK0000124440	337.2
No	WRZH-LD	D3+	LD	LIC	RED LION-HARRISBURG, PA	BLANK0000120467	333.6
Yes	WBRA-TV	D3	DT	LIC	ROANOKE, VA	BLANK0000047419	147.0
No	WQED	D4	DT	LIC	PITTSBURGH, PA	BLANK0000076434	217.6
No	W04CI	D4z	LD	CP	APPOMATTOX, VA	BLANK0000152264	174.9
No	W04CI	N4z	TX	LIC	APPOMATTOX, VA	BLTTTV19901105JO	174.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D3

Mask: Stringent

Latitude: 38 30 35.60 N (NAD83)

Longitude: 80 20 31.00 W

Height AMSL: 985.8 m
HAAT: 0.0 m
Peak ERP: 3.00 kW
Antenna: SCA-CL26 (ID 1003069) 10.0 deg
Elev Pattn: Generic

43.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	2.65 kW	291.3 m	65.4 km
45.0	0.932	161.7	48.3
90.0	0.002	102.9	10.3
135.0	0.000	65.6	5.2
180.0	0.006	127.7	15.3
225.0	0.002	274.7	16.5
270.0	0.000	324.5	11.7
315.0	0.120	360.3	44.2

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 214 m

Distance to Canadian border: 393.0 km

Distance to Mexican border: 2084.5 km

Conditions at FCC monitoring station: Laurel MD
Bearing: 75.5 degrees Distance: 313.4 km

**Proposal is within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 282.8 degrees Distance: 2140.1 km

Study cell size: 1.00 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 BLANK0000124440 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WGGN-TV	D3	DT	LIC	SANDUSKY, OH	BLANK0000124440	
Undesireds:	W22ES-D	D3	LD	CP	SUTTON, WV		337.2 km
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	32265.0 3,999,013	31994.9	3,970,756	31994.9	3,970,756	31963.0 3,963,233	0.10 0.19
	2710.6 3,911	2710.6	3,911	2710.6	3,911	2710.6 3,911	0.00 0.00
(in Canada)							
Undesired				Total IX	Unique IX, before	Unique IX, after	
W22ES-D D3 LD CP		31.9		7,523		31.9 7,523	

Interference to BLANK0000047419 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WBRA-TV	D3	DT	LIC	ROANOKE, VA	BLANK0000047419	
Undesireds:	W22ES-D	D3	LD	CP	SUTTON, WV		147.0 km
	WVIR-TV	D2	DT	LIC	CHARLOTTESVILLE, VA	BLANK0000109093	171.4
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	51091.3 1,725,389	49693.8	1,680,035	49659.2	1,679,757	49547.5 1,678,392	0.23 0.08
Undesired				Total IX	Unique IX, before	Unique IX, after	
W22ES-D D3 LD CP		111.8		1,365		111.8 1,365	
WVIR-TV D2 DT LIC		34.5		278	34.5 278	34.5 278	

Interference to proposal scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
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Desired: W22ES-D D3 LD CP SUTTON, WV

Undesireds: WBRA-TV D3 DT LIC ROANOKE, VA BLANK00000047419 147.0 km

Service area		Terrain-limited		IX-free		Percent IX	
3408.7	46,112	3380.8	45,748	3378.8	45,722	0.06	0.06

Undesired		Total IX		Unique IX		Prcnt Unique IX	
WBRA-TV	D3 DT LIC	2.0	26	2.0	26	0.06	0.06