tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: Sutton25d0.2kwinceltiat0f, Model: Longley-Rice
Start: 2022.01.03 05:31:15

Study created: 2022.01.03 05:31:15

Study build station data: LMS TV 2022-01-03

    Proposal: W25FX-D D25 LD CP SUTTON, WV
 Facility ID: 186770
Station data: User record
   Record ID: 1486
     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	WPXI	D24	LD	LIC	PITTSBURGH, PA	BLANK0000106625	160.6 km
No	WHSV-TV	D24	LD	LIC	Massanutten, VA	BLANK0000122198	208.9
Yes	WVAH-TV	D24	DT	LIC	CHARLESTON, WV	BLANK0000167888	107.4
No	W24ER-D	D24	LD	LIC	CLARKSBURG, WV	BLANK0000058555	77.0
No	W24ES-D	D24	LD	LIC	MOOREFIELD, WV	BLANK0000081242	160.2
No	WUPX-TV	D25	DT	LIC	RICHMOND, KY	BLANK0000075153	359.8
No	WNUV	D25	DT	LIC	BALTIMORE, MD	BLANK0000136472	358.8
No	W42CK	D25+	LD	CP	HAGERSTOWN, MD	BLANK0000054340	273.7
No	WXYZ-TV	D25	DT	LIC	DETROIT, MI	BLANK0000126705	474.3
No	WJZY	D25	DT	LIC	BELMONT, NC	BLANK0000146872	369.0
No	WUNK-TV	D25	DT	LIC	GREENVILLE, NC	BLANK0000143143	442.2
No	WUEK-LD	D25	LD	LIC	CANTON, OH	BLANK0000067575	324.5
No	WCPX-LP	D25	LD	CP	COLUMBUS, OH	BLANK0000177468	244.0
No	WXCB-CD	D25	DC	LIC	DELAWARE, OH	BLANK0000087098	299.6
No	KDKA-TV	D25	DT	LIC	PITTSBURGH, PA	BLCDT20041004ACS	211.9
No	WDLE-LP	D25+	LD	CP	PIGEON FORGE, TN	BLANK0000139392	410.9
No	WYAT-LD	D25z	LD	LIC	MARTINSVILLE, VA	BLANK0000116027	231.3
No	WHSV-TV	D25	LD	APP	Massanutten, VA	BLANK0000177269	167.2
No	WWBK-LD	D25	LD	LIC	RICHMOND, VA	BLANK0000108657	300.7
No	WLFB	D25	DT	LIC	BLUEFIELD, WV	BLANK0000123625	167.4
No	W25FS-D	D25	LD	LIC	CLARKSBURG, WV	BLANK0000158968	72.8

No	W25FR-D	D25	LD	LIC	CLARKSBURG, WV	BLANK0000158971	72.8
No	DWVVK-LP	D26-	LD	APP	MARTIN, KY	BLANK0000054354	220.8
No	WGPT	D26	DT	LIC	OAKLAND, MD	BLANK0000080370	147.7
No	WIVD-LD	D26	LD	LIC	NEWCOMERSTOWN, OH	BLANK0000079906	200.2
No	WIVD-LD	D26	LD	CP	NEWCOMERSTOWN, OH	BLANK0000080067	200.2
No	WOSC-CD	D26	DC	LIC	PITTSBURGH, PA	BLANK0000125715	208.3
No	WHTJ	D26	DT	LIC	CHARLOTTESVILLE, VA	BLANK0000112378	208.5
No	W26EL-D	D26	LD	CP	CLARKSBURG, WV	BNPDTL20100514AAX	77.1
No	W26EW-D	D26	LD	LIC	HUNTINGTON, WV	BLANK0000116963	149.4
No	WIYE-LD	D26	LD	LIC	PARKERSBURG, WV	BLANK0000079793	106.1

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

```
    Channel: D25
       Mask: Stringent
   Latitude:  38 39 48.70 N (NAD83)
  Longitude:  80 42 44.00 W
Height AMSL: 261.7 m (Adjusted based on actual ground elevation calculation)
       HAAT: 0.0 m
   Peak ERP: 0.200 kW
    Antenna: ELTI-ELTI UHF Panel (ID 1008435) 0.0 deg
Elev Pattrn: Generic
```

49.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.200 kW	-132.6 m	11.9 km
45.0	0.040	-70.3	8.1
90.0	0.000	-94.7	2.1
135.0	0.002	-207.7	3.6
180.0	0.000	-192.1	2.8
225.0	0.001	-117.6	3.3
270.0	0.000	-60.1	2.1
315.0	0.043	-111.1	8.2

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: -123 m

Distance to Canadian border: 364.2 km

Distance to Mexican border: 2069.4 km

Conditions at FCC monitoring station: Laurel MD
Bearing: 79.4 degrees Distance: 341.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 282.3 degrees Distance: 2105.0 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 BLANK0000167888 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVAH-TV	D24	DT	LIC	CHARLESTON, WV	BLANK0000167888	
Undesireds:	W25FX-D	D25	LD	CP	SUTTON, WV		107.4 km
	WKPI-TV	D23	DT	LIC	PIKEVILLE, KY	BLANK0000087418	136.2
	WPTA	D24	DT	LIC	FORT WAYNE, IN	BLANK0000068624	410.2
	WKON	D24	DT	LIC	OWENTON, KY	BLANK0000087440	253.4
	WCNC-TV	D24	DT	LIC	CHARLOTTE, NC	BLANK0000147158	346.4
	WEAO	D24	DT	LIC	AKRON, OH	BLANK0000095195	298.2
	WDEM-CD	D24	DC	LIC	COLUMBUS, OH	BLANK0000071611	195.4
	WTAJ-TV	D24	DT	LIC	ALTOONA, PA	BLANK0000079898	381.8
	WETP-TV	D24	DT	LIC	SNEEDVILLE, TN	BLANK0000120200	251.9
	WLFB	D25	DT	LIC	BLUEFIELD, WV	BLANK0000123625	143.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX

39337.9	1,373,982	38334.3	1,292,447	38227.2	1,288,252	38226.2	1,288,154	0.00	0.01

Undesired		Total IX	Unique IX, before		Unique IX, after	
W25FX-D D25 LD CP	1.0	98			1.0	98
WKPI-TV D23 DT LIC	4.1	19	3.0	0	3.0	0
WKON D24 DT LIC	2.0	110	2.0	110	2.0	110
WCNC-TV D24 DT LIC	2.0	42	1.0	42	1.0	42
WEAO D24 DT LIC	13.9	1,503	10.9	1,268	10.9	1,268
WDEM-CD D24 DC LIC	5.0	421	1.0	167	1.0	167
WTAJ-TV D24 DT LIC	2.0	49	2.0	49	2.0	49
WETP-TV D24 DT LIC	47.7	2,124	37.5	1,992	37.5	1,992
WLFB D25 DT LIC	44.7	313	36.6	200	36.6	200

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W25FX-D	D25	LD	CP	SUTTON, WV		

Service area		Terrain-limited		IX-free		Percent IX	
122.0	3,361	122.0	3,361	122.0	3,361	0.00	0.00