tvstudy v2.2.2
Database: localhost, Study: WVLR PROPOSED 798 KW, Model: Longley-Rice
Start: 2017.05.26 10:20:20

Study created: 2017.05.26 10:20:14

Study build station data: LMS TV 2017-05-22 (9)

    Proposal: WVLR D36 DT APP TAZEWELL, TN
 File number: WVLR PROPOSED 798 KW
 Facility ID: 81750
Station data: User record
   Record ID: 295
     Country: U.S.

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
WKLE	D35	DT	BL	LEXINGTON, KY	DTVBL34207	190.5 km
WMYA-TV	D35	DT	BL	ANDERSON, SC	DTVBL56548	217.2
WTCI	D35	DT	BL	CHATTANOOGA, TN	DTVBL65667	189.4
WUPA	D36	DT	BL	ATLANTA, GA	DTVBL6900	280.0
WFXG	D36	DT	BL	AUGUSTA, GA	DTVBL3228	355.7
WKAS	D36	DT	BL	ASHLAND, KY	DTVBL34171	260.7
WAVE	D36	DT	BL	LOUISVILLE, KY	DTVBL13989	304.8
WUNE-TV	D36	DT	BL	LINVILLE, NC	DTVBL69114	161.7
WRGT-TV	D36	DT	BL	DAYTON, OH	DTVBL411	389.1
WTVF	D36	DT	BL	NASHVILLE, TN	DTVBL36504	283.1
WFXR	D36	DT	BL	ROANOKE, VA	DTVBL24813	326.6

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D36
   Latitude: 36 15 30.30 N (NAD83)
  Longitude: 83 37 42.66 W
Height AMSL: 829.0 m
       HAAT: 430.0 m
   Peak ERP: 798 kW
    Antenna: ERI-ATW23HS4-HTCX-36H (ID 89537) 0.0 deg

40.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	92.2 kW	403.0 m	87.2 km
45.0	43.5	392.8	81.5
90.0	101	445.2	90.1
135.0	152	486.7	96.1
180.0	570	484.5	108.2
225.0	688	386.2	101.7
270.0	170	400.1	91.4
315.0	71.6	449.7	87.9

Database HAAT does not agree with computed HAAT
Database HAAT: 430 m   Computed HAAT: 431 m

ERP exceeds maximum
ERP: 798 kW   ERP maximum: 729 kW

Proposal service area is within baseline plus 1.0%
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 607.8 km

Distance to Mexican border: 1701.8 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 200.8 degrees   Distance: 284.4 km
ERP: 783 kW   Field strength: 14.9 dBu, 0.0 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 289.4 degrees   Distance: 1929.7 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%

Interference to DTVBL34207 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL56548 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL65667 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL65667 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL6900 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WUPA	D36	DT	BL	ATLANTA, GA	DTVBL6900	
Undesireds:	WVLR	D36	DT	BL	TAZEWELL, TN	DTVBL81750	280.0 km
	WVLR	D36	DT	APP	TAZEWELL, TN	WVLR PROPOSED 798 KW	280.0
	WEAC-CD	D35	DC	BL	JACKSONVILLE, AL	DTVBL64338	143.2
	WLTZ	D35	DT	LIC	COLUMBUS, GA	BLCDT20060627ABT	158.4
	WTCI	D35	DT	BL	CHATTANOOGA, TN	DTVBL65667	177.9
	WTVY	D36	DT	LIC	DOTHAN, AL	BLCDT20090901AAL	346.9
	WSES	D36	DT	BL	TUSCALOOSA, AL	DTVBL21258	288.3
	WFXG	D36	DT	BL	AUGUSTA, GA	DTVBL3228	235.9
	WUNE-TV	D36	DT	BL	LINVILLE, NC	DTVBL69114	338.6
	WTVF	D36	DT	BL	NASHVILLE, TN	DTVBL36504	352.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
30783.1	5,946,452	29349.4	5,868,300	29033.6	5,847,403	29033.6	5,847,403	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WVLR D36 DT BL	99.7	9,667	79.7	6,509		
WVLR D36 DT APP	99.7	9,667			79.7	6,509
WEAC-CD D35 DC BL	20.1	1,240	12.1	809	12.1	809
WTCI D35 DT BL	4.0	15	4.0	15	4.0	15
WTVY D36 DT LIC	80.0	3,685	76.0	3,594	76.0	3,594
WSES D36 DT BL	64.1	7,055	28.1	484	28.1	484
WFXG D36 DT BL	24.0	899	12.0	393	12.0	393
WUNE-TV D36 DT BL	24.0	895	12.0	389	12.0	389
WTVF D36 DT BL	63.9	5,207	35.9	1,273	35.9	1,273

Interference to DTVBL3228 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL34171 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL13989 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL69114 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WUNE-TV	D36	DT	BL	LINVILLE, NC	DTVBL69114	
Undesireds:	WVLR	D36	DT	BL	TAZEWELL, TN	DTVBL81750	161.7 km
	WVLR	D36	DT	APP	TAZEWELL, TN	WVLR PROPOSED 798 KW	161.7
	WFMY-TV	D35	DT	BL	GREENSBORO, NC	DTVBL72064	181.4
	WMYA-TV	D35	DT	BL	ANDERSON, SC	DTVBL56548	162.1
	WUPA	D36	DT	BL	ATLANTA, GA	DTVBL6900	338.6
	WFXG	D36	DT	BL	AUGUSTA, GA	DTVBL3228	294.2
	WKAS	D36	DT	BL	ASHLAND, KY	DTVBL34171	275.3
	WEPX-TV	D36	DT	BL	GREENVILLE, NC	DTVBL81508	405.8

	WBFT-CD	D36	DC	BL	SANFORD, NC	DTVBL64400	248.6
	WFXB	D36	DT	BL	MYRTLE BEACH, SC	DTVBL9054	319.2
	WSVF-CD	D36	DC	BL	HARRISONBURG, VA	DTVBL190915	375.4
	WFXR	D36	DT	BL	ROANOKE, VA	DTVBL24813	196.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
27092.7	1,930,705	22202.2	1,507,510	21206.6	1,475,120	21206.6	1,475,120	0.00	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
WVLR D36 DT BL	140.0	4,681		68.0	542		
WVLR D36 DT APP	140.0	4,681				68.0	542
WFMY-TV D35 DT BL	200.4	8,194		180.3	7,723	180.3	7,723
WMYA-TV D35 DT BL	4.0	0		0.0	0	0.0	0
WUPA D36 DT BL	32.3	1,651		12.1	1,021	12.1	1,021
WFXG D36 DT BL	12.1	259		8.1	100	8.1	100
WKAS D36 DT BL	4.0	364		0.0	0	0.0	0
WFXB D36 DT BL	181.1	7,209		80.2	3,361	80.2	3,361
WFXR D36 DT BL	626.9	19,075		461.9	11,648	461.9	11,648

Interference to DTVBL411 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL36504 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTVF	D36	DT	BL	NASHVILLE, TN	DTVBL36504	
Undesireds:	WVLR	D36	DT	BL	TAZEWELL, TN	DTVBL81750	283.1 km
	WVLR	D36	DT	APP	TAZEWELL, TN	WVLR PROPOSED 798 KW	283.1
	WTCI	D35	DT	BL	CHATTANOOGA, TN	DTVBL65667	179.9
	WBBJ-TV	D35	DT	BL	JACKSON, TN	DTVBL65204	185.1
	WSES	D36	DT	BL	TUSCALOOSA, AL	DTVBL21258	315.4
	WUPA	D36	DT	BL	ATLANTA, GA	DTVBL6900	352.8
	WBXI-CD	D36	DC	BL	INDIANAPOLIS, IN	DTVBL70416	393.1
	WAVE	D36	DT	BL	LOUISVILLE, KY	DTVBL13989	248.4
	KBSI	D36	DT	BL	CAPE GIRARDEAU, MO	DTVBL19593	277.3
	WMAV-TV	D36	DT	LIC	OXFORD, MS	BLEDT20090612AAK	344.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
36441.7	2,365,383	35337.1	2,348,589	34524.3	2,331,492	34524.3	2,331,492	0.00	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
WVLR D36 DT BL	72.2	2,498		28.1	1,452		
WVLR D36 DT APP	72.2	2,498				28.1	1,452
WUPA D36 DT BL	28.2	713		16.2	207	16.2	207
WAVE D36 DT BL	352.1	4,214		220.0	2,871	220.0	2,871
KBSI D36 DT BL	492.4	11,507		404.3	10,785	404.3	10,785
WMAV-TV D36 DT LIC	8.0	14		8.0	14	8.0	14

Interference to DTVBL24813 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WFXR	D36	DT	BL	ROANOKE, VA	DTVBL24813	
Undesireds:	WVLR	D36	DT	BL	TAZEWELL, TN	DTVBL81750	326.6 km
	WVLR	D36	DT	APP	TAZEWELL, TN	WVLR PROPOSED 798 KW	326.6
	WFMY-TV	D35	DT	BL	GREENSBORO, NC	DTVBL72064	150.1
	WAHU-CD	D35	DC	BL	CHARLOTTESVILLE, VA	DTVBL47705	171.4
	WTTG	D36	DT	LIC	WASHINGTON, DC	BLCDT20080507AAA	332.3
	WKAS	D36	DT	BL	ASHLAND, KY	DTVBL34171	258.2
	WEPX-TV	D36	DT	BL	GREENVILLE, NC	DTVBL81508	315.9
	WUNE-TV	D36	DT	BL	LINVILLE, NC	DTVBL69114	196.3
	WBFT-CD	D36	DC	BL	SANFORD, NC	DTVBL64400	209.6
	WWLM-CD	D36	DC	BL	WASHINGTON, PA	DTVBL267	332.8
	WFXB	D36	DT	BL	MYRTLE BEACH, SC	DTVBL9054	345.6
	WSVF-CD	D36	DC	BL	HARRISONBURG, VA	DTVBL190915	180.2
	WPMC-CD	D36	DC	LIC	MAPPSVILLE, VA	BLANK0000001499	410.3
	WYSJ-CA	D36	DC	BL	YORKTOWN, VA	DTVBL35134	328.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
38591.5	1,421,499	33102.3	1,297,220	31964.9	1,266,448	31964.9	1,266,448	0.00	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
WVLR D36 DT BL	8.0	127		4.0	64		
WVLR D36 DT APP	8.0	127				4.0	64
WFMY-TV D35 DT BL	191.4	10,462		63.8	1,244	63.8	1,244

WAHU-CD D35 DC BL	31.8	669	19.9	601	19.9	601	
WTTG D36 DT LIC	107.4	3,679	55.7	2,409	55.7	2,409	
WKAS D36 DT BL	19.9	72	19.9	72	19.9	72	
WEPX-TV D36 DT BL	67.7	1,341	31.8	559	31.8	559	
WUNE-TV D36 DT BL	530.0	20,241	358.7	10,067	358.7	10,067	
WFXB D36 DT BL	31.9	926	0.0	0	0.0	0	
WSVF-CD D36 DC BL	404.2	5,414	360.6	4,941	360.6	4,941	

Interference to proposal, scenario 1
0.64% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVLR	D36	DT	APP	TAZEWELL, TN	WVLR PROPOSED 798 KW	
Undesireds:	WTCI	D35	DT	BL	CHATTANOOGA, TN	DTVBL65667	189.4 km
	WUPA	D36	DT	BL	ATLANTA, GA	DTVBL6900	280.0
	WFXG	D36	DT	BL	AUGUSTA, GA	DTVBL3228	355.7
	WKAS	D36	DT	BL	ASHLAND, KY	DTVBL34171	260.7
	WAVE	D36	DT	BL	LOUISVILLE, KY	DTVBL13989	304.8
	WUNE-TV	D36	DT	BL	LINVILLE, NC	DTVBL69114	161.7
	WTVF	D36	DT	BL	NASHVILLE, TN	DTVBL36504	283.1
	WFXR	D36	DT	BL	ROANOKE, VA	DTVBL24813	326.6

Service area		Terrain-limited		IX-free		Percent IX	
27295.1	1,412,728	22832.0	1,300,961	22416.1	1,292,592	1.82	0.64

Undesired	Total IX		Unique IX		Prcnt Unique IX	
WUPA D36 DT BL	24.2	0	12.1	0	0.05	0.00
WKAS D36 DT BL	8.0	0	4.0	0	0.02	0.00
WAVE D36 DT BL	215.6	4,355	95.8	1,783	0.42	0.14
WUNE-TV D36 DT BL	44.2	364	36.2	308	0.16	0.02
WTVF D36 DT BL	239.9	5,593	124.1	3,021	0.54	0.23
WFXR D36 DT BL	15.9	685	12.0	629	0.05	0.05