



Kessler and Gehman Associates
Consultants • Broadcast • Wireless

tvstudy v2.2.2

Database: localhost, Study: **WOWK-D10 13 kW 1%**, Model: Longley-Rice
Start: 2017.06.15 08:01:14

Study created: 2017.06.15 08:01:00

Study build station data: LMS TV 2017-06-14 (10)

Proposal: **WOWK-TV D10 DT BL HUNTINGTON, WV**
File number: DTVBL23342
Facility ID: 23342
Station data: User record
Record ID: 364
Country: U.S.
Zone: I

Non-U.S. records included

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
WTOV-TV	D9	DT	LIC	STEUBENVILLE, OH	BLCDT20111206ACB	245.5 km
WJHL-TV	D9	DT	BL	JOHNSON CITY, TN	DTVBL57826	230.6
WTHI-TV	D10	DT	LIC	TERRE HAUTE, IN	BLCDT20090622ACG	455.3
WOIO	D10	DT	LIC	SHAKER HEIGHTS, OH	BLANK0000001560	323.3
WBIR-TV	D10	DT	LIC	KNOXVILLE, TN	BLCDT20090619ADG	317.3
WWBT	D10	DT	BL	RICHMOND, VA	DTVBL30833	426.8
WVNS-TV	D11	DT	BL	LEWISBURG, WV	DTVBL74169	154.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D10
Latitude: 38 30 21.10 N (NAD83)
Longitude: 82 12 32.30 W
Height AMSL: 640.4 m
HAAT: 412.3 m

Peak ERP: 13.0 kW

Antenna: Omnidirectional

36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	13.0 kW	432.7 m	104.2 km
45.0	13.0	414.9	102.8
90.0	13.0	376.8	100.2
135.0	13.0	421.8	103.3
180.0	13.0	418.5	103.1
225.0	13.0	420.5	103.3
270.0	13.0	414.5	102.8
315.0	13.0	398.5	101.7

ERP exceeds maximum

ERP: 13.0 kW ERP maximum: 11.0 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: 352.8 km

Distance to Mexican border: 1958.0 km

Conditions at FCC monitoring station: Laurel MD

Bearing: 79.4 degrees Distance: 472.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 282.6 degrees Distance: 1981.7 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 BLCDT20111206ACB LIC, scenario 1
Proposal causes no interference.

Interference to BLCDT20111206ACB LIC, scenario 2
Proposal causes no interference.

Interference to DTVBL57826 BL, scenario 1
Proposal causes no interference.

Interference to BLCDT20090622ACG LIC, scenario 1
Proposal causes no interference.

Interference to BLCDT20090622ACG LIC, scenario 2
Proposal causes no interference.

Interference to BLANK0000001560 LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WOIO	D10	DT	LIC	SHAKER HEIGHTS, OH	BLANK0000001560	
Undesireds:	WOWK-TV	D10	DT	BL	HUNTINGTON, WV	DTVBL23342	323.3 km
	WOWK-TV	D10	DT	BL	HUNTINGTON, WV	DTVBL23342	323.3
	WTOV-TV	D9	DT	LIC	STEUBENVILLE, OH	BLCDT20111206ACB	147.1
	WILX-TV	D10	DT	LIC	ONONDAGA, MI	BLCDT20120404ACG	265.3
	WTOL	D11	DT	LIC	TOLEDO, OH	BLCDT20090622ABU	143.7
	WPCW	D11	DT	LIC	JEANNETTE, PA	BLCDT20090626AAT	172.2
	CBET-DT	D9	DT	LIC	WINDSOR, ON	BLANKCANADA242	134.6
	CFPL-DT	D10	DT	LIC	LONDON, ON	BLANKCANADA184	177.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent	New IX
21747.4	3,821,233	20833.5	3,745,335	19284.1	3,636,553	19284.1	3,636,553	0.00	0.00
1552.9	0	1552.9	0	1204.6	0	1204.6	0	0.00	0.00
(in Canada)									

Undesired				Total IX	Unique IX, before	Unique IX, after	
WOWK-TV D10 DT BL	39.9			4,141	16.0	823	
WOWK-TV D10 DT BL	39.9			4,141		16.0	823
WILX-TV D10 DT LIC	56.5			4,957	48.4	4,710	4,710
CFPL-DT D10 DT LIC	1484.9			103,249	1456.9	99,834	99,834
CFPL-DT D10 DT LIC	348.3			0	348.3	0	(in Canada)

Interference to BLCDT20090619ADG LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WBIR-TV	D10	DT	LIC	KNOXVILLE, TN	BLCDT20090619ADG	
Undesireds:	WOWK-TV	D10	DT	BL	HUNTINGTON, WV	DTVBL23342	317.3 km
	WOWK-TV	D10	DT	BL	HUNTINGTON, WV	DTVBL23342	317.3
	WTVG	D9	DT	LIC	CHATTANOOGA, TN	BLCDT20090914ABU	156.0
	WJHL-TV	D9	DT	BL	JOHNSON CITY, TN	DTVBL57826	168.4
	WBIQ	D10	DT	LIC	BIRMINGHAM, AL	BLEDT20140612ABA	383.5
	WXIA-TV	D10	DT	LIC	ATLANTA, GA	BLCDT20040302AAO	252.5
	WIS	D10	DT	LIC	COLUMBIA, SC	BLCDT20090624ABZ	357.1
	WSMV-TV	D10	DT	LIC	NASHVILLE, TN	BLCDT20021029AAV	263.3
	WSPA-TV	D11	DT	BL	SPARTANBURG, SC	DTVBL66391	175.6
	WOPI-CD	D11	DC	BL	BRISTOL,VA/KINGSPORT, TN	DTVBL27490	168.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
46951.2 1,978,347	38211.6 1,701,857	36145.6 1,639,381	36145.6 1,639,381	0.00 0.00

Undesired				Total IX	Unique IX, before	Unique IX, after
WOWK-TV D10 DT BL	84.0			1,765	40.0	649
WOWK-TV D10 DT BL	84.0			1,673		40.0
WTVG D9 DT LIC	294.1			14,959	181.3	8,755
WJHL-TV D9 DT BL	187.8			10,858	80.0	5,540
WXIA-TV D10 DT LIC	521.3			15,408	280.3	6,652
WIS D10 DT LIC	88.0			606	28.0	391
WSMV-TV D10 DT LIC	1184.0			31,498	999.5	24,069
WSPA-TV D11 DT BL	36.3			20	8.0	2
WOPI-CD D11 DC BL	139.6			6,135	31.9	817

Interference to DTVBL30833 BL, scenario 1

Proposal causes no interference.

Interference to DTVBL30833 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL74169 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVNS-TV	D11	DT	BL	LEWISBURG, WV	DTVBL74169	
Undesireds:	WOWK-TV	D10	DT	BL	HUNTINGTON, WV	DTVBL23342	154.5 km
	WOWK-TV	D10	DT	BL	HUNTINGTON, WV	DTVBL23342	154.5
	WJZ-TV	D11	DT	CP	BALTIMORE, MD	BLANK0000024506	392.9
	WPCW	D11	DT	LIC	JEANNETTE, PA	BLCDT20090626AAT	308.2
	WSPA-TV	D11	DT	BL	SPARTANBURG, SC	DTVBL66391	322.1
	WOPI-CD	D11	DC	BL	BRISTOL,VA/KINGSPORT, TN	DTVBL27490	195.7
	WVEC	D11	DT	BL	HAMPTON, VA	DTVBL74167	389.5
	WVPT	D12	DD	BL	STAUNTON, VA	DTVBL60111	129.6
	WBOY-TV	D12	DT	LIC	CLARKSBURG, WV	BLANK0000003150	171.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX					
32408.5	911,831	25917.4	587,048	25616.9	583,740	25616.8	583,679	0.00	0.01

Undesired	Total IX	Unique IX, before	Unique IX, after	
WOWK-TV D10 DT BL	39.5	209	31.6	198
WOWK-TV D10 DT BL	39.6	270	31.7	259
WJZ-TV D11 DT CP	4.0	0	0.0	0
WPCW D11 DT LIC	148.7	682	136.8	671
WSPA-TV D11 DT BL	96.3	2,241	96.3	2,241
WVEC D11 DT BL	8.0	156	8.0	156
WVPT D12 DD BL	15.9	31	15.9	31

Interference to DTVBL74169 BL, scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVNS-TV	D11	DT	BL	LEWISBURG, WV	DTVBL74169	

Undesireds:	WOWK-TV	D10	DT	BL	HUNTINGTON, WV	DTVBL23342	154.5 km
	WOWK-TV	D10	DT	BL	HUNTINGTON, WV	DTVBL23342	154.5
	WJZ-TV	D11	DT	BL	BALTIMORE, MD	DTVBL25455	392.9
	WPCW	D11	DT	LIC	JEANNETTE, PA	BLCDT20090626AAT	308.2
	WSPA-TV	D11	DT	BL	SPARTANBURG, SC	DTVBL66391	322.1
	WOPI-CD	D11	DC	BL	BRISTOL,VA/KINGSPORT, TN	DTVBL27490	195.7
	WVEC	D11	DT	BL	HAMPTON, VA	DTVBL74167	389.5
	WVPT	D12	DD	BL	STAUNTON, VA	DTVBL60111	129.6
	WBOY-TV	D12	DT	LIC	CLARKSBURG, WV	BLANK0000003150	171.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
32408.5	911,831	25917.4	587,048	25616.9	583,740	25616.8	583,679	0.00 0.01

Undesired		Total IX		Unique IX, before		Unique IX, after
WOWK-TV D10 DT BL	39.5	209	31.6	198		
WOWK-TV D10 DT BL	39.6	270			31.7	259
WJZ-TV D11 DT BL	4.0	0	0.0	0	0.0	0
WPCW D11 DT LIC	148.7	682	136.8	671	136.8	671
WSPA-TV D11 DT BL	96.3	2,241	96.3	2,241	96.3	2,241
WVEC D11 DT BL	8.0	156	8.0	156	8.0	156
WVPT D12 DD BL	15.9	31	15.9	31	15.9	31

Interference to proposal, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WOWK-TV	D10	DT	BL	HUNTINGTON, WV	DTVBL23342	
Undesireds:	WOIO	D10	DT	LIC	SHAKER HEIGHTS, OH	BLANK0000001560	323.3 km
	WBIR-TV	D10	DT	LIC	KNOXVILLE, TN	BLCDT20090619ADG	317.3
	WVNS-TV	D11	DT	BL	LEWISBURG, WV	DTVBL74169	154.5

Service area		Terrain-limited		IX-free		Percent IX
33139.8	1,182,759	31211.8	1,098,959	31140.4	1,097,971	0.23 0.09

Undesired		Total IX		Unique IX		Prcnt Unique IX
WOIO D10 DT LIC	11.9	135	11.9	135	0.04	0.01
WBIR-TV D10 DT LIC	59.5	853	59.5	853	0.19	0.08