

tvstudy v2.2.2
Database: localhost, Study: wobc, Model: Longley-Rice
Start: 2017.06.29 11:11:13

Study created: 2017.06.29 10:59:04

Study build station data: LMS TV 2017-06-28 (31)

Proposal: WOB-CD D16 DC BL BATTLE CREEK, MI
File number: DTVBL67001
Facility ID: 67001
Station data: User record
Record ID: 1052
Country: U.S.

Non-U.S. records included

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
WDCQ-TV	D15	DT	LIC	BAD AXE, MI	BLEDT20030922ABG	185.6 km
W33BY-D	D15	DC	BL	DETROIT, MI	DTVBL25722	170.9
WXSP-CD	D15	DC	LIC	GRAND RAPIDS, MI	BLDTA20100714AAG	93.6
WTVO	D16	DT	LIC	ROCKFORD, IL	BLCDT20021024AAS	329.3
WRSP-TV	D16	DT	BL	SPRINGFIELD, IL	DTVBL62009	453.0
WCUH-LD	D16	LD	LIC	FORT WAYNE, IN	BLANK000008063	146.6
WCUH-LD	D16	LD	CP	FORT WAYNE, IN	BLANK000008088	140.7
WFWC-CD	D16	DC	BL	FORT WAYNE, IN	DTVBL67485	132.1
WDNI-CD	D16	DC	BL	INDIANAPOLIS, IN	DTVBL28199	286.9
WPBI-LD	D16	LD	LIC	LAFAYETTE, IN	BLANK0000016458	252.4
WMYO	D16	DT	BL	SALEM, IN	DTVBL34167	441.5
WEID-LD	D16	LD	LIC	SOUTH BEND, IN	BLDTL20141105ADE	100.3
W16CZ-D	D16	LD	CP	TERRE HAUTE, IN	BNPDTL20100128AHQ	388.1
WTOM-TV	D16	DT	BL	CHEBOYGAN, MI	DTVBL21254	379.4
WSMH	D16	DT	LIC	FLINT, MI	BLCDT20090804ABG	137.0
W16DN-D	D16	LD	CP	TRAVERSE CITY, MI	BNPDTL20100510AGN	277.9
WOSU-TV	D16	DT	BL	COLUMBUS, OH	DTVBL66185	301.8
W16DM-D	D16	LD	CP	LIMA, OH	BNPDTL20100609AFI	164.4
W16BT	D16	LD	APP	ZANESVILLE, OH	BDFCDTT20060330ADJ	373.4
WYIN	D17	DT	LIC	GARY, IN	BLEDT20040206AAA	212.6
WOTV	D17	DT	BL	BATTLE CREEK, MI	DTVBL10212	40.1
WXMI	D17	LD	LIC	GRAND RAPIDS, MI	BLCDT20141105ACV	1.0
W17DF-D	D17	LD	LIC	MUSKEGON, MI	BLDTL20110215AAG	139.7
CIIII-DT-4	D16	DT	LIC	OWEN SOUND, ON	BLANKCANADA208	413.2
CHWI-DT	D16	DT	LIC	WHEATLEY, ON	BLANKCANADA241	224.4
CITY-DT-2	D16	DT	LIC	WOODSTOCK, ON	BLANKCANADA246	369.1

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:

WTOU 930 L DA2 D BATTLE CREEK, MI BL20070410AEF
WTOU 930 L DA2 N BATTLE CREEK, MI BL20070410AEF

Record parameters as studied:

Channel: D16
Mask: Stringent
Latitude: 42 17 16.70 N (NAD83)
Longitude: 85 9 54.30 W
Height AMSL: 364.2 m
HAAT: 84.0 m
Peak ERP: 0.296 kW
Antenna: DLP-8B 0.0 deg

48.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.269 kW	87.2 m	23.1 km
45.0	0.168	87.3	20.7
90.0	0.116	86.3	18.6
135.0	0.138	80.6	18.8
180.0	0.130	79.6	18.4
225.0	0.122	74.1	17.4
270.0	0.203	73.0	19.9
315.0	0.288	103.8	25.4

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

Distance to Canadian border: 167.6 km

Distance to Mexican border: 2009.6 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 298.8 degrees Distance: 73.8 km
ERP: 0.267 kW Field strength: 7.1 dBu, 0.0 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 268.7 degrees Distance: 1689.8 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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 BLEDT20030922ABG LIC, scenario 1
Proposal causes no interference.

Interference to BLEDT20030922ABG LIC, scenario 2
Proposal causes no interference.

Interference to DTVBL25722 BL, scenario 1
Proposal causes no interference.

Interference to BLDTA20100714AAG LIC, scenario 1
Proposal causes no interference.

Interference to BLDTA20100714AAG LIC, scenario 2
Proposal causes no interference.

Interference to BLCDT20021024AAS LIC, scenario 1
Proposal causes no interference.

Interference to BLCDT20021024AAS LIC, scenario 2
Proposal causes no interference.

Interference to DTVBL62009 BL, scenario 1
Proposal causes no interference.

Interference to BLANK0000008063 LIC, scenario 1
Proposal causes no interference.

Interference to BLANK0000008088 CP, scenario 1
Proposal causes no interference.

Interference to DTVBL67485 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL67485 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL28199 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL28199 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL28199 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL28199 BL, scenario 4
Proposal causes no interference.

Interference to DTVBL28199 BL, scenario 5
Proposal causes no interference.

Interference to DTVBL28199 BL, scenario 6
Proposal causes no interference.

Interference to DTVBL28199 BL, scenario 7
Proposal causes no interference.

Interference to DTVBL28199 BL, scenario 8
Proposal causes no interference.

Interference to BLANK0000016458 LIC, scenario 1
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 4
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 5
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 6
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 7
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 8
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 9
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 10
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 11
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 12
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 13
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 14
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 15
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 16
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 17
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 18
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 19
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 20
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 21
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 22
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 23
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 24
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 25
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 26
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 27
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 28
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 29
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 30
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 31
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 32
Proposal causes no interference.

Interference to BLDTL20141105ADE LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WEID-LD	D16	LD	LIC	SOUTH BEND, IN	BLDTL20141105ADE	
Undesireds:	WOBC-CD	D16	DC	BL	BATTLE CREEK, MI	DTVBL67001	100.4 km
	WOBC-CD	D16	DC	BL	BATTLE CREEK, MI	DTVBL67001	100.3
	WTVO	D16	DT	LIC	ROCKFORD, IL	BLCDT20021024AAS	265.7
	WSMH	D16	DT	LIC	FLINT, MI	BLCDT20090804ABG	236.8

WYIN	D17	DT	LIC	GARY, IN	BLEDT20040206AAA	117.4
CHWI-DT	D16	DT	LIC	WHEATLEY, ON	BLANKCANADA241	303.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
6015.8	636,912	6015.8	636,912	6011.8	636,707	6011.8	636,707	0.00	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
WOBC-CD D16 DC BL	4.0	205		0.0	0		
WOBC-CD D16 DC BL	4.0	205				0.0	0
WSMH D16 DT LIC	4.0	205		0.0	0	0.0	0

Interference to BNPDTL20100128AHQ CP, scenario 1

Proposal causes no interference.

Interference to DTVBL21254 BL, scenario 1

Proposal causes no interference.

Interference to BLCDT20090804ABG LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WSMH	D16	DT	LIC	FLINT, MI	BLCDT20090804ABG	
Undesireds:	WOBC-CD	D16	DC	BL	BATTLE CREEK, MI	DTVBL67001	136.9 km
	WOBC-CD	D16	DC	BL	BATTLE CREEK, MI	DTVBL67001	137.0
	WDCQ-TV	D15	DT	LIC	BAD AXE, MI	BLEDT20030922ABG	48.7
	W33BY-D	D15	DC	BL	DETROIT, MI	DTVBL25722	121.2
	WXSP-CD	D15	DC	LIC	GRAND RAPIDS, MI	BLDTA20100714AAG	137.0
	WFWC-CD	D16	DC	BL	FORT WAYNE, IN	DTVBL67485	252.2
	WTOM-TV	D16	DT	BL	CHEBOYGAN, MI	DTVBL21254	270.4
	WOSU-TV	D16	DT	BL	COLUMBUS, OH	DTVBL66185	354.0
	WOTV	D17	DT	BL	BATTLE CREEK, MI	DTVBL10212	134.7
	CIII-DT-4	D16	DT	LIC	OWEN SOUND, ON	BLANKCANADA208	281.5
	CHWI-DT	D16	DT	LIC	WHEATLEY, ON	BLANKCANADA241	179.5
	CITY-DT-2	D16	DT	LIC	WOODSTOCK, ON	BLANKCANADA246	269.0
	CHWI-DT-60D17	DT	LIC	WINDSOR, ON	BLANKCANADA243	131.7	

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
24428.4	2,339,224	24392.3	2,327,660	23101.9	2,255,055	23105.9	2,255,155	-0.02	-0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
WOBC-CD D16 DC BL	4.0	100		4.0	100		
WOBC-CD D16 DC BL	0.0	0				0.0	0
WDCQ-TV D15 DT LIC	1122.1	13,516		1122.1	13,516	1122.1	13,516
WOSU-TV D16 DT BL	16.1	4,522		0.0	0	0.0	0
WOTV D17 DT BL	8.0	143		8.0	143	8.0	143
CIII-DT-4 D16 DT LIC	8.0	226		0.0	0	0.0	0
CHWI-DT D16 DT LIC	152.3	58,752		136.3	54,192	136.3	54,192
CITY-DT-2 D16 DT LIC	8.0	4,430		0.0	0	0.0	0

Interference to BNPDTL20100510AGN CP, scenario 1

Proposal causes no interference.

Interference to DTVBL66185 BL, scenario 1

Proposal causes no interference.

Interference to DTVBL66185 BL, scenario 2

Proposal causes no interference.

Interference to DTVBL66185 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL66185 BL, scenario 4
Proposal causes no interference.

Interference to BNPDTL20100609AFI CP, scenario 1
Proposal causes no interference.

Interference to BDFCDTT20060330ADJ APP, scenario 1
Proposal causes no interference.

Interference to BLEDT20040206AAA LIC, scenario 1
Proposal causes no interference.

Interference to BLEDT20040206AAA LIC, scenario 2
Proposal causes no interference.

Interference to BLEDT20040206AAA LIC, scenario 3
Proposal causes no interference.

Interference to BLEDT20040206AAA LIC, scenario 4
Proposal causes no interference.

Interference to BLEDT20040206AAA LIC, scenario 5
Proposal causes no interference.

Interference to BLEDT20040206AAA LIC, scenario 6
Proposal causes no interference.

Interference to BLEDT20040206AAA LIC, scenario 7
Proposal causes no interference.

Interference to BLEDT20040206AAA LIC, scenario 8
Proposal causes no interference.

Interference to DTVBL10212 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL10212 BL, scenario 2
Proposal causes no interference.

Interference to BLCDT20141105ACV LIC, scenario 1
Proposal causes no interference.

Interference to BLDTL20110215AAG LIC, scenario 1
Proposal causes no interference.

Interference to BLANKCANADA208 LIC, scenario 1

Proposal causes no interference.

Interference to BLANKCANADA241 LIC, scenario 1

Proposal causes no interference.

Interference to BLANKCANADA246 LIC, scenario 1

Proposal causes no interference.

Interference to proposal, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WOBC-CD	D16	DC	BL	BATTLE CREEK, MI	DTVBL67001	
Undesireds:	WXSP-CD	D15	DC	LIC	GRAND RAPIDS, MI	BLDTA20100714AAG	93.6 km
	WFWC-CD	D16	DC	BL	FORT WAYNE, IN	DTVBL67485	132.1
	WDNI-CD	D16	DC	BL	INDIANAPOLIS, IN	DTVBL28199	286.9
	WSMH	D16	DT	LIC	FLINT, MI	BLCDT20090804ABG	137.0
	WOSU-TV	D16	DT	BL	COLUMBUS, OH	DTVBL66185	301.8
	WOTV	D17	DT	BL	BATTLE CREEK, MI	DTVBL10212	40.1
	CHWI-DT	D16	DT	LIC	WHEATLEY, ON	BLANKCANADA241	224.4

Service area		Terrain-limited		IX-free		Percent IX	
1331.3	123,555	1331.3	123,555	1307.3	122,949	1.81	0.49

Undesired		Total IX	Unique IX	Prcnt Unique IX		
WSMH D16 DT LIC	4.0	38	4.0	38	0.30	0.03
WOTV D17 DT BL	20.0	568	20.0	568	1.51	0.46