

tvstudy v2.2.2

Database: localhost, Study: W33BY-D 2.66 KW-DA (598), Model: Longley-Rice
Start: 2017.07.07 10:02:09

Study created: 2017.07.07 10:01:56

Study build station data: LMS TV 2017-07-04 (13)

Proposal: W33BY-D D15 DC APP DETROIT, MI
File number: W33BY-D 2.66 KW-DA
Facility ID: 25722
Station data: User record
Record ID: 561
Country: U.S.

Non-U.S. records included

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
WLAJ	D14	DT	BL	LANSING, MI	DTVBL36533	117.5 km
WTTK	D15	DT	CP	KOKOMO, IN	BLANK0000024884	382.3
WTTK	D15	DT	BL	KOKOMO, IN	DTVBL56526	382.3
WXIX-TV	D15	DT	CP	NEWPORT, KY	BLANK0000025169	385.3
WXIX-TV	D15	DT	BL	NEWPORT, KY	DTVBL39738	385.3
WDCQ-TV	D15	DT	LIC	BAD AXE, MI	BLEDT20030922ABG	134.3
WXSP-CD	D15	DC	LIC	GRAND RAPIDS, MI	BLDTA20100714AAG	226.6
WBNF-CD	D15	DC	LIC	BUFFALO, NY	BLDTA20111130LWW	346.8
WEWS-TV	D15	DT	LIC	CLEVELAND, OH	BLCDT20091211ACS	161.7
WOHL-CD	D15	DC	BL	LIMA, OH	DTVBL68549	203.8
WQCW	D15	DT	CP	PORTSMOUTH, OH	BLANK0000025192	439.5
WQCW	D15	DT	BL	PORTSMOUTH, OH	DTVBL65130	440.1
WPSU-TV	D15	DD	LIC	CLEARFIELD, PA	BLEDT20130614ACC	411.1
WCWF	D15	DT	BL	SURING, WI	DTVBL73042	449.3
WOBC-CD	D16	DC	BL	BATTLE CREEK, MI	DTVBL67001	170.8
WSMH	D16	DT	LIC	FLINT, MI	BLCDT20090804ABG	121.2
WOSU-TV	D16	DT	BL	COLUMBUS, OH	DTVBL66185	250.4
CHCH-DT-2	D14	DT	LIC	LONDON, ON	BLANKCANADA189	111.8
CHCH-DT	D15	DT	LIC	HAMILTON, ON	BLANKCANADA173	284.7
CHWI-DT	D16	DT	LIC	WHEATLEY, ON	BLANKCANADA241	60.8
CITY-DT-2	D16	DT	LIC	WOODSTOCK, ON	BLANKCANADA246	202.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D15
Mask: Full Service
Latitude: 42 24 29.10 N (NAD83)
Longitude: 83 5 29.70 W
Height AMSL: 253.3 m
HAAT: 0.0 m
Peak ERP: 2.66 kW
Antenna: ATC-ATC-BPH8C2 (ID 110840) 325.0 deg

48.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	1.92 kW	61.3 m	29.6 km
45.0	2.24	63.3	30.7
90.0	0.190	68.4	19.0
135.0	0.001	68.3	5.2
180.0	0.001	71.3	5.4
225.0	0.864	67.3	26.6
270.0	2.57	57.2	30.4
315.0	2.40	48.2	28.1

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 63 m

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

**Proposal 23.83 dBu contour crosses Canadian border, coordination required
Distance to Canadian border: 10.3 km

Distance to Mexican border: 2154.3 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 276.3 degrees Distance: 235.7 km
ERP: 2.55 kW Field strength: -5.9 dBu, 0.0 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 269.7 degrees Distance: 1860.3 km

**Proposal fails distance check to land mobile station: Detroit MI ch. 15, 9.4 km
**Proposal fails distance check to land mobile station: Detroit MI ch. 16, 9.4 km

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 DTVBL36533 BL, scenario 1
Proposal causes no interference.

Interference to BLANK0000024884 CP, scenario 1
Proposal causes no interference.

Interference to BLANK0000024884 CP, scenario 2
Proposal causes no interference.

Interference to BLANK0000024884 CP, scenario 3
Proposal causes no interference.

Interference to BLANK0000024884 CP, scenario 4
Proposal causes no interference.

Interference to BLANK0000024884 CP, scenario 5
Proposal causes no interference.

Interference to BLANK0000024884 CP, scenario 6
Proposal causes no interference.

Interference to BLANK0000024884 CP, scenario 7
Proposal causes no interference.

Interference to BLANK0000024884 CP, scenario 8
Proposal causes no interference.

Interference to BLANK0000024884 CP, scenario 9
Proposal causes no interference.

Interference to BLANK0000024884 CP, scenario 10
Proposal causes no interference.

Interference to BLANK0000024884 CP, scenario 11
Proposal causes no interference.

Interference to BLANK0000024884 CP, scenario 12
Proposal causes no interference.

Interference to BLANK0000024884 CP, scenario 13
Proposal causes no interference.

Interference to BLANK0000024884 CP, scenario 14
Proposal causes no interference.

Interference to BLANK0000024884 CP, scenario 15
Proposal causes no interference.

Interference to BLANK0000024884 CP, scenario 16
Proposal causes no interference.

Interference to DTVBL56526 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL56526 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL56526 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL56526 BL, scenario 4
Proposal causes no interference.

Interference to DTVBL56526 BL, scenario 5
Proposal causes no interference.

Interference to DTVBL56526 BL, scenario 6
Proposal causes no interference.

Interference to DTVBL56526 BL, scenario 7
Proposal causes no interference.

Interference to DTVBL56526 BL, scenario 8
Proposal causes no interference.

Interference to DTVBL56526 BL, scenario 9
Proposal causes no interference.

Interference to DTVBL56526 BL, scenario 10
Proposal causes no interference.

Interference to DTVBL56526 BL, scenario 11
Proposal causes no interference.

Interference to DTVBL56526 BL, scenario 12
Proposal causes no interference.

Interference to DTVBL56526 BL, scenario 13
Proposal causes no interference.

Interference to DTVBL56526 BL, scenario 14
Proposal causes no interference.

Interference to DTVBL56526 BL, scenario 15
Proposal causes no interference.

Interference to DTVBL56526 BL, scenario 16
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 1
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 2
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 3
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 4
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 5
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 6
Proposal causes no interference.

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Interference to BLANK0000025169 CP, scenario 9
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 10
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 11
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Interference to BLANK0000025169 CP, scenario 12
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Interference to BLANK0000025169 CP, scenario 13
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 14
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 15
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 16
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 17
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 18
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 19
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 20
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 21
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 22
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 23
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 24
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 25
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 26
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 27
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 28
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 29
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 30
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 31
Proposal causes no interference.

Interference to BLANK0000025169 CP, scenario 32
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 4
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 5
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 6
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 7
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 8
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 9

Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 10
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 11
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 12
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 13
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 14
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 15
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 16
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 17
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 18
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 19
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 20
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 21
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 22
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 23
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 24
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 25
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 26
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 27
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 28
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 29
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 30
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 31
Proposal causes no interference.

Interference to DTVBL39738 BL, scenario 32
Proposal causes no interference.

Interference to BLEDT20030922ABG LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDCQ-TV	D15	DT	LIC	BAD AXE, MI	BLEDT20030922ABG	
Undesireds:	W33BY-D	D15	DC	BL	DETROIT, MI	DTVBL25722	134.3 km
	W33BY-D	D15	DC	APP	DETROIT, MI	W33BY-D 2.66 KW-DA	134.3
	WLAJ	D14	DT	BL	LANSING, MI	DTVBL36533	143.1
	WXSP-CD	D15	DC	LIC	GRAND RAPIDS, MI	BLDTA20100714AAG	178.2
	WEWS-TV	D15	DT	LIC	CLEVELAND, OH	BLCDT20091211ACS	288.9
	WOHL-CD	D15	DC	BL	LIMA, OH	DTVBL68549	313.1
	WCWF	D15	DT	BL	SURING, WI	DTVBL73042	356.9
	WOBC-CD	D16	DC	BL	BATTLE CREEK, MI	DTVBL67001	185.6
	WSMH	D16	DT	LIC	FLINT, MI	BLCDT20090804ABG	48.7
	CHCH-DT-2	D14	DT	LIC	LONDON, ON	BLANKCANADA189	165.6
	CHCH-DT	D15	DT	LIC	HAMILTON, ON	BLANKCANADA173	316.1
	CIII-DT-12D	D15	DT	LIC	SAULT STE MARIE, ON	BLANKCANADA219	343.0
	CHWI-DT	D16	DT	LIC	WHEATLEY, ON	BLANKCANADA241	184.5

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX					
	24389.7	1,269,199	24389.7	1,269,199	22997.6	1,178,286	22997.6	1,178,286	0.00	0.00

Undesired	Total IX	Unique IX, before	Unique IX, after	
W33BY-D D15 DC BL	76.0	13,392	12.0	4,481
W33BY-D D15 DC APP	76.0	13,392	12.0	4,481
WEWS-TV D15 DT LIC	279.2	20,668	223.3	12,646
WSMH D16 DT LIC	1104.9	65,951	1092.9	64,875

Interference to BLEDT20030922ABG LIC, scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDCQ-TV	D15	DT	LIC	BAD AXE, MI	BLEDT20030922ABG	
Undesireds:	W33BY-D	D15	DC	BL	DETROIT, MI	DTVBL25722	134.3 km
	W33BY-D	D15	DC	APP	DETROIT, MI	W33BY-D 2.66 KW-DA	134.3
	WLAJ	D14	DT	BL	LANSING, MI	DTVBL36533	143.1
	WXSP-CD	D15	DC	LIC	GRAND RAPIDS, MI	BLDTA20100714AAG	178.2
	WEWS-TV	D15	DT	LIC	CLEVELAND, OH	BLCDT20091211ACS	288.9
	WOHL-CD	D15	DC	BL	LIMA, OH	DTVBL68549	313.1
	WCWF	D15	DT	BL	SURING, WI	DTVBL73042	356.9
	WOBC-CD	D16	DC	BL	BATTLE CREEK, MI	DTVBL67001	185.6
	WSMH	D16	DT	LIC	FLINT, MI	BLCDT20090804ABG	48.7
	CHCH-DT-2	D14	DT	LIC	LONDON, ON	BLANKCANADA189	165.6
	CHCH-DT	D15	DT	LIC	HAMILTON, ON	BLANKCANADA173	316.1
	CIII-DT-12D	D15	DT	LIC	SAULT STE MARIE, ON	BLANKCANADA219	343.0
	CHWI-DT	D16	DT	LIC	WHEATLEY, ON	BLANKCANADA241	184.5

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX					
	24389.7	1,269,199	24389.7	1,269,199	22997.6	1,178,286	22997.6	1,178,286	0.00	0.00

Undesired	Total IX	Unique IX, before	Unique IX, after	
W33BY-D D15 DC BL	76.0	13,392	12.0	4,481
W33BY-D D15 DC APP	76.0	13,392	12.0	4,481
WEWS-TV D15 DT LIC	279.2	20,668	223.3	12,646
WSMH D16 DT LIC	1104.9	65,951	1092.9	64,875

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

Interference to BLDTA20100714AAG LIC, scenario 2

Proposal causes no interference.

Interference to BLDTA20111130LWW LIC, scenario 1
Proposal causes no interference.

Interference to BLCDDT20091211ACS LIC, scenario 1
Proposal causes no interference.

Interference to BLCDDT20091211ACS LIC, scenario 2
Proposal causes no interference.

Interference to BLCDDT20091211ACS LIC, scenario 3
Proposal causes no interference.

Interference to BLCDDT20091211ACS LIC, scenario 4
Proposal causes no interference.

Interference to BLCDDT20091211ACS LIC, scenario 5
Proposal causes no interference.

Interference to BLCDDT20091211ACS LIC, scenario 6
Proposal causes no interference.

Interference to BLCDDT20091211ACS LIC, scenario 7
Proposal causes no interference.

Interference to BLCDDT20091211ACS LIC, scenario 8
Proposal causes no interference.

Interference to DTVBL68549 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL68549 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL68549 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL68549 BL, scenario 4
Proposal causes no interference.

Interference to DTVBL68549 BL, scenario 5
Proposal causes no interference.

Interference to DTVBL68549 BL, scenario 6
Proposal causes no interference.

Interference to DTVBL68549 BL, scenario 7
Proposal causes no interference.

Interference to DTVBL68549 BL, scenario 8
Proposal causes no interference.

Interference to BLANK0000025192 CP, scenario 1
Proposal causes no interference.

Interference to BLANK0000025192 CP, scenario 2
Proposal causes no interference.

Interference to BLANK0000025192 CP, scenario 3
Proposal causes no interference.

Interference to BLANK0000025192 CP, scenario 4
Proposal causes no interference.

Interference to BLANK0000025192 CP, scenario 5
Proposal causes no interference.

Interference to BLANK0000025192 CP, scenario 6
Proposal causes no interference.

Interference to BLANK0000025192 CP, scenario 7
Proposal causes no interference.

Interference to BLANK0000025192 CP, scenario 8
Proposal causes no interference.

Interference to BLANK0000025192 CP, scenario 9
Proposal causes no interference.

Interference to BLANK0000025192 CP, scenario 10
Proposal causes no interference.

Interference to BLANK0000025192 CP, scenario 11
Proposal causes no interference.

Interference to BLANK0000025192 CP, scenario 12
Proposal causes no interference.

Interference to BLANK0000025192 CP, scenario 13
Proposal causes no interference.

Interference to BLANK0000025192 CP, scenario 14
Proposal causes no interference.

Interference to BLANK0000025192 CP, scenario 15
Proposal causes no interference.

Interference to BLANK0000025192 CP, scenario 16
Proposal causes no interference.

Interference to DTVBL65130 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL65130 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL65130 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL65130 BL, scenario 4
Proposal causes no interference.

Interference to DTVBL65130 BL, scenario 5
Proposal causes no interference.

Interference to DTVBL65130 BL, scenario 6
Proposal causes no interference.

Interference to DTVBL65130 BL, scenario 7
Proposal causes no interference.

Interference to DTVBL65130 BL, scenario 8
Proposal causes no interference.

Interference to DTVBL65130 BL, scenario 9
Proposal causes no interference.

Interference to DTVBL65130 BL, scenario 10
Proposal causes no interference.

Interference to DTVBL65130 BL, scenario 11
Proposal causes no interference.

Interference to DTVBL65130 BL, scenario 12
Proposal causes no interference.

Interference to DTVBL65130 BL, scenario 13
Proposal causes no interference.

Interference to DTVBL65130 BL, scenario 14
Proposal causes no interference.

Interference to DTVBL65130 BL, scenario 15
Proposal causes no interference.

Interference to DTVBL65130 BL, scenario 16
Proposal causes no interference.

Interference to BLEDT20130614ACC LIC, scenario 1
Proposal causes no interference.

Interference to BLEDT20130614ACC LIC, scenario 2
Proposal causes no interference.

Interference to BLEDT20130614ACC LIC, scenario 3
Proposal causes no interference.

Interference to BLEDT20130614ACC LIC, scenario 4
Proposal causes no interference.

Interference to DTVBL73042 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL73042 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL73042 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL67001 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL67001 BL, scenario 2
Proposal causes no interference.

Interference to BLCDT20090804ABG LIC, scenario 1
Proposal causes no interference.

Interference to BLCDT20090804ABG LIC, scenario 2
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 DTVBL66185 BL, scenario 5
Proposal causes no interference.

Interference to DTVBL66185 BL, scenario 6
Proposal causes no interference.

Interference to DTVBL66185 BL, scenario 7
Proposal causes no interference.

Interference to DTVBL66185 BL, scenario 8
Proposal causes no interference.

Interference to BLANKCANADA189 LIC, scenario 1
Proposal causes no interference.

Interference to BLANKCANADA173 LIC, scenario 1
Proposal causes no interference.

Interference to BLANKCANADA241 LIC, scenario 1
Proposal causes no interference.

Interference to BLANKCANADA241 LIC, scenario 2
Proposal causes no interference.

Interference to BLANKCANADA246 LIC, scenario 1
Proposal causes no interference.

Interference to proposal, scenario 1
0.66% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W33BY-D	D15	DC	APP	DETROIT, MI	W33BY-D 2.66 KW-DA	
Undesireds:	WLAJ	D14	DT	BL	LANSING, MI	DTVBL36533	117.5 km
	WDCQ-TV	D15	DT	LIC	BAD AXE, MI	BLEDT20030922ABG	134.3
	WXSP-CD	D15	DC	LIC	GRAND RAPIDS, MI	BLDTA20100714AAG	226.6
	WEWS-TV	D15	DT	LIC	CLEVELAND, OH	BLCDT20091211ACS	161.7
	WOHL-CD	D15	DC	BL	LIMA, OH	DTVBL68549	203.8
	WSMH	D16	DT	LIC	FLINT, MI	BLCDT20090804ABG	121.2
	CHCH-DT-2	D14	DT	LIC	LONDON, ON	BLANKCANADA189	111.8
	CHCH-DT	D15	DT	LIC	HAMILTON, ON	BLANKCANADA173	284.7
	CHWI-DT	D16	DT	LIC	WHEATLEY, ON	BLANKCANADA241	60.8

	Service area	Terrain-limited	IX-free	Percent IX
1805.3	2,390,377	1805.3	2,390,377	1.11
				0.66
Undesired		Total IX	Unique IX	Prct Unique IX
WDCQ-TV D15 DT LIC	4.0	6,388	4.0	6,388
				0.22
				0.27

WEWS-TV D15 DT LIC	16.1	9,447	16.1	9,447	0.89	0.40
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