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Study build station data: LMS TV 2018-07-11

Proposal: WBQC-LD D20 LD APP CINCINNATI, OH  
File number: WBQC-LD D20 PRE-POST T  
Facility ID: 168413  
Station data: User record  
Record ID: 2071  
Country: U.S.

Build options:  
Protect pre-transition records not on baseline channel

Search options:  
Non-U.S. records included  
All post-transition APP, CP, and baseline records excluded

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	W19DT-D	D19	LD	CP	FORT WAYNE, IN	BNPDTL20091228AAW	216.5 km
No	WDNI-CD	D19	DC	LIC	INDIANAPOLIS, IN	BLDTA20090615ADH	154.9
No	WCLL-CD	D19	DC	LIC	COLUMBUS, OH	BLANK0000052505	157.3
No	WVAH-TV	D19	DT	LIC	CHARLESTON, WV	BLCDT20050621AAV	238.6
No	WPVN-CD	D20	DC	LIC	CHICAGO, IL	BLDTA20130204ABC	405.2
No	W20ED-D	D20	LD	CP	DECATUR, IL	BDCCDTT20130322AII	392.9
No	WTSN-CD	D20	DC	LIC	EVANSVILLE, IN	BLDTL20120328AJA	272.0
No	WDGM-LD	D20	LD	CP	FORT WAYNE, IN	BLANK0000008633	216.5
Yes	WHMB-TV	D20	DT	LIC	INDIANAPOLIS, IN	BLCDT20120503AAT	169.5
No	WUVI-LD	D20	LD	LIC	WEST LAFAYETTE, IN	BLANK0000019528	354.4
Yes	W20CT-D	D20	LD	LIC	AUGUSTA, KY	BLDTT20080819ACK	58.0
No	WKUT-LD	D20	LD	APP	BOWLING GREEN, KY	BLANK0000052703	221.9
No	WOTV	D20	DT	LIC	BATTLE CREEK, MI	BLCDT20130207AAQ	391.6
No	WHNE-LD	D20	LD	LIC	DETROIT, MI	BLDTL20140922ADJ	385.8
No	WLFM-LP	D20z	LD	APP	CLEVELAND, OH	BLANK0000054824	345.3
Yes	WLWD-LD	D20	LD	LIC	SPRINGFIELD, OH	BLANK0000017721	69.8
Yes	WLWD-LD	N20+	TX	LIC	SPRINGFIELD, OH	BLTT20051219ADW	107.8
No	WFMJ-TV	D20	DT	LIC	YOUNGSTOWN, OH	BLCDT20061013ABM	393.4
No	WWLM-CD	D20	DC	LIC	WASHINGTON, PA	BLANK0000001454	383.8
No	WBXX-TV	D20	DT	LIC	CROSSVILLE, TN	BLCDT20090619ABD	335.5
No	WNPX-LP	N20-	TX	LIC	NASHVILLE, TN	BLTTL20021119ABM	376.3
No	WWCW	D20	DT	LIC	LYNCHBURG, VA	BLCDT20090619ABM	469.8
No	WOVA-LD	D20	LD	CP	PARKERSBURG, WV	BLANK0000052517	253.8
No	W20DY-D	D20	LD	CP	ROANOKE, WV	BNPDTL20100514AAR	343.2
No	W21DJ-D	D21	LD	CP	FORT WAYNE, IN	BNPDTL20091228AAU	216.5
No	WFYI	D21	DT	LIC	INDIANAPOLIS, IN	BLEDT20100803ADB	169.4
Yes	WUPX-TV	D21	DT	LIC	MOREHEAD, KY	BLCDT20040901ACJ	154.9
Yes	WBNS-TV	D21	DT	LIC	COLUMBUS, OH	BLCDT20021025ABK	157.3
No	W22DE	N22+	TX	LIC	DAYTON, OH	BLTTL20100511AAU	69.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D20  
Mask: Stringent  
Latitude: 39 7 30.40 N (NAD83)  
Longitude: 84 29 56.00 W  
Height AMSL: 464.3 m  
HAAT: 0.0 m  
Peak ERP: 15.0 kW  
Antenna: SCA-SL8 0.0 deg  
Elev Pattn: Generic  
Elec Tilt: 1.00

49.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	252.1 m	54.7 km
45.0	12.8	229.1	52.6
90.0	6.94	287.5	52.6
135.0	6.73	282.0	52.2
180.0	7.78	270.4	52.3
225.0	6.24	245.0	49.8
270.0	7.14	236.3	50.0
315.0	12.4	230.8	52.5

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m    Computed HAAT: 254 m

Distance to Canadian border: 322.7 km

Distance to Mexican border: 1852.9 km

Conditions at FCC monitoring station: Allegan MI  
Bearing: 342.9 degrees    Distance: 405.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 280.3 degrees    Distance: 1773.7 km

No land mobile station failures found

Study cell size: 1.00 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%

\*\*IX check failure to BLDTT20080819ACK LIC scenario 1, 12.00% interference caused  
\*\*IX check failure to BLANK0000017721 LIC scenario 1, 6.77% interference caused