

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WFLD_STA_EXT_MOD_09122019, Model: Longley-Rice
Start: 2019.09.13 16:23:57

Study created: 2019.09.13 16:23:57

Study build station data: LMS TV 2019-09-13

Proposal: WFLD D31 DT APP CHICAGO, IL
File number: WFLD_STA_EXT_MOD
Facility ID: 22211
Station data: User record
Record ID: 825
Country: U.S.
Zone: I

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	WMBD-TV	D30	DT	LIC	PEORIA, IL	BLCDT20061019ADD	212.9 km
Yes	WANE-TV	D31	DT	LIC	FORT WAYNE, IN	BLCDT20090622ACE	222.2
No	WMYD	D31	DT	LIC	DETROIT, MI	BLANK0000081119	371.6
No	KDNL-TV	D31	DT	LIC	ST. LOUIS, MO	BLCDT20021216AAE	434.4
No	WICD	D32	DT	LIC	CHAMPAIGN, IL	BLANK0000059351	204.8
Yes	WMEU-CD	D32	DC	LIC	CHICAGO, IL	BLDTA20131212ABK	2.5
No	WIFS	D32	DT	LIC	JANESVILLE, WI	BLCDT20040930BHL	199.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D31
Latitude: 41 53 56.10 N (NAD83)
Longitude: 87 37 23.20 W
Height AMSL: 597.7 m
HAAT: 419.0 m

Peak ERP: 1000 kW
Antenna: DIELECTRIC-TFU-24WB/VP-R C160 OS (ID 1004737) 0.0 deg
Elev Pattn: Generic
Elec Tilt: 0.95

40.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	241 kW	422.3 m	96.1 km
45.0	42.6	422.6	83.8
90.0	33.1	422.2	82.1
135.0	301	422.6	98.0
180.0	918	416.1	108.1
225.0	715	416.0	105.6
270.0	766	411.6	105.9
315.0	859	415.3	107.4

ERP exceeds maximum
ERP: 1000 kW ERP maximum: 782 kW

Distance to Canadian border: 370.0 km

Distance to Mexican border: 1827.9 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 59.6 degrees Distance: 158.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 268.4 degrees Distance: 1486.0 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 BLCDT20090622ACE LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WANE-TV	D31	DT	LIC	FORT WAYNE, IN	BLCDT20090622ACE	

Undesireds:	WFLD	D31	DT	APP	CHICAGO, IL	WFLD_STA_EXT_MOD	222.2 km
	WMYD	D31	DT	LIC	DETROIT, MI	BLANK0000081119	224.3

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
20979.2 1,108,844	20979.2 1,108,844	20975.2 1,108,727	20967.2 1,108,668	0.04 0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
WFLD D31 DT APP 8.0	59		8.0 59
WMYD D31 DT LIC 4.0	117	4.0 117	4.0 117

Interference to BLDTA20131212ABK LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WMEU-CD	D32	DC	LIC	CHICAGO, IL	BLDTA20131212ABK	

Undesireds:	WFLD	D31	DT	APP	CHICAGO, IL	WFLD_STA_EXT_MOD	2.5 km
	WFQX-TV	D32	DT	LIC	CADILLAC, MI	BLCDT20091217ACU	312.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
10668.5 8,244,561	10664.5 8,242,364	10664.5 8,242,364	10640.4 8,231,355	0.23 0.13

Undesired	Total IX	Unique IX, before	Unique IX, after
WFLD D31 DT APP 24.1	11,009		24.1 11,009

Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WFLD	D31	DT	APP	CHICAGO, IL	WFLD_STA_EXT_MOD	

Service area	Terrain-limited	IX-free	Percent IX
30677.9 9,881,231	30629.7 9,878,012	30629.7 9,878,012	0.00 0.00