

FIGURE 3 - W21EF-LD MINOR CHANGE - FCC TVSTUDY SUMMARY REPORT

Proposal: W21EF-LD D21 LD APP WAUPACA, WI
 File number: W21EF-LD MOD
 Facility ID: 67935
 Station data: User record
 Record ID: 756
 Country: U.S.

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

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WWME-CD	D20	DC	LIC	CHICAGO, IL	BLANK0000086882	221.8 km
No	WWME-CD	D20	DC	CP	CHICAGO, IL	BLANK0000196954	219.9
No	WCMW	D20	DT	LIC	MANISTEE, MI	BLANK0000087364	165.7
No	WHA-TV	D20	DT	LIC	MADISON, WI	BLANK0000089074	125.3
No	KGCW	D21	DT	LIC	BURLINGTON, IA	BLANK0000107917	320.3
No	WJYS	D21	DT	LIC	HAMMOND, IN	BLANK0000087539	221.8
No	WFYI	D21	DT	LIC	INDIANAPOLIS, IN	BLEDT20100803ADB	469.3
No	WZPX-TV	D21	DT	LIC	BATTLE CREEK, MI	BLANK0000087609	271.9
No	WWJ-TV	D21	DT	LIC	DETROIT, MI	BLANK0000125983	447.5
No	WFUP	D21	DT	LIC	VANDERBILT, MI	BLANK0000087814	324.8
No	WUMN-LD	D21	LD	LIC	MINNEAPOLIS, MN	BLANK0000125868	410.5
No	WEUX	D21	DT	LIC	CHIPPEWA FALLS, WI	BLANK0000078776	291.8
Yes	WIFS	D21	DT	LIC	JANESVILLE, WI	BLANK0000090143	125.3
No	W21DS-D	D21	LD	LIC	SAYNER/VILAS COUNTY, WI	BLANK0000055208	264.3
No	WLS-TV	D22	DT	LIC	CHICAGO, IL	BLANK0000232100	221.8
No	WLLA	D22	DT	LIC	KALAMAZOO, MI	BLANK0000122579	273.0
No	WPBN-TV	D22	LD	LIC	TRAVERSE CITY, MI	BLANK0000143350	218.7
No	W22FK-D	D22	LD	LIC	BARABOO, WI	BLANK0000215895	167.7
Yes	WFRV-TV	D22	DT	LIC	GREEN BAY, WI	BLANK0000163103	66.9
No	WISC-TV	D22	LD	CP	MADISON, WI	BLANK0000152659	124.2
No	WPVS-LD	N29z	TX	LIC	MILWAUKEE, WI	BLTTL20080221AAP	46.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D21
 Mask: Full Service
 Latitude: 43 48 1.10 N (NAD83)
 Longitude: 88 22 11.40 W
 Height AMSL: 336.5 m
 HAAT: 0.0 m
 Peak ERP: 2.50 kW
 Antenna: SCA PR-TV 2-ARRAY 165/345 165.0 deg
 Elev Patrn: Generic

49.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.995 kW	104.1 m	31.3 km
45.0	0.023	38.6	8.0
90.0	0.021	41.2	8.1
135.0	0.090	17.2	10.1
180.0	0.995	18.6	18.4
225.0	0.023	87.1	12.1
270.0	0.021	97.0	12.5
315.0	0.090	107.0	18.9

Database HAAT does not agree with computed HAAT
 Database HAAT: 0 m Computed HAAT: 64 m

Distance to Canadian border: 420.4 km
 Distance to Mexican border: 1938.3 km

Conditions at FCC monitoring station: Allegan MI
 Bearing: 123.3 degrees Distance: 236.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
 Bearing: 259.5 degrees Distance: 1447.6 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%

Proposal causes 0.03% interference to BLANK0000090143 LIC scenario 1

Proposal causes 0.01% interference to BLANK0000163103 LIC scenario 1

---- Below is IX received by proposal W21EF-LD MOD ----

Proposal receives 0.72% interference from scenario 1

No IX check failures found.