



Kessler and Gehman Associates
Consultants • Broadcast • Wireless

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: WEUX-D21 STA with Waiver, Model: Longley-Rice

Start: 2019.05.22 10:50:15

Study created: 2019.05.22 10:50:15

Study build station data: LMS TV 2019-05-22

Proposal: WEUX D21 DT CP CHIPPEWA FALLS, WI

File number: BLANK0000053767

Facility ID: 2709

Station data: User record

Record ID: 2101

Country: U.S.

Zone: II

Search options:

Non-U.S. records included

Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KSMQ-TV	D20	DT	LIC	AUSTIN, MN	BLEDT20081223AAK	161.2 km
No	WHA-TV	D20	DT	CP	MADISON, WI	BLANK0000035690	271.5
No	WHA-TV	D20	DT	LIC	MADISON, WI	BLANK0000072966	271.5
No	WHA-TV	D20	DT	LIC	MADISON, WI	BLEDT20091229ACK	271.5
No	KGCW	D21	DT	APP	BURLINGTON, IA	BLANK0000072848	416.7
No	KGCW	D21	DT	CP	BURLINGTON, IA	BLANK0000034909	416.7
No	WJYS	D21	DT	CP	HAMMOND, IN	BLANK0000034920	472.1
No	KDLT-TV	D21	DT	CP	SIOUX FALLS, SD	BLANK0000027512	421.4
Yes	WIFS	D21	DT	CP	JANESVILLE, WI	BLANK0000064353	271.5
Yes	WUCW	D22	DT	LIC	MINNEAPOLIS, MN	BLCDT20060405AAI	116.2

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
Latitude: 44 57 24.00 N (NAD83)
Longitude: 91 40 4.00 W
Height AMSL: 467.3 m
HAAT: 163.7 m
Peak ERP: 635 kW
Antenna: Dielectric-TFU-16WB C160 90.0 deg
Elev Pattn: Generic
Elec Tilt: 1.00

39.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	512 kW	139.8 m	76.4 km
45.0	615	131.8	76.7
90.0	398	156.5	76.4
135.0	614	175.6	80.5
180.0	512	183.8	80.0
225.0	137	182.6	72.7
270.0	291	173.3	76.0
315.0	138	166.0	71.5

Proposal 24.46 dBu contour does not cross Canadian border
Distance to Canadian border: 343.2 km

Distance to Mexican border: 1890.9 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 117.7 degrees Distance: 527.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 249.0 degrees Distance: 1229.7 km

No land mobile station failures found

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 BLANK0000064353 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIFS	D21	DT	CP	JANESVILLE, WI	BLANK0000064353	
Undesireds:	WEUX	D21	DT	CP	CHIPPEWA FALLS, WI	BLANK0000053767	271.5 km
	WHA-TV	D20	DT	CP	MADISON, WI	BLANK0000035690	0.0
	KGCW	D21	DT	APP	BURLINGTON, IA	BLANK0000072848	204.3
	WJYS	D21	DT	CP	HAMMOND, IN	BLANK0000034920	203.4
	WZPX-TV	D21	DT	APP	BATTLE CREEK, MI	BLANK0000068453	335.8
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	29901.5 1,583,693	29602.0	1,578,870	28981.2	1,540,762	28772.9 1,536,544	0.72 0.27
Undesired				Total IX	Unique IX, before	Unique IX, after	
WEUX D21 DT CP				324.8 14,732		208.4 4,218	
KGCW D21 DT APP				200.2 8,415	136.1 1,922	132.1 999	
WJYS D21 DT CP				484.7 36,186	408.7 29,205	328.3 25,722	
WZPX-TV D21 DT APP				12.0 488	0.0 0	0.0 0	

Interference to BLANK0000064353 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIFS	D21	DT	CP	JANESVILLE, WI	BLANK0000064353	
Undesireds:	WEUX	D21	DT	CP	CHIPPEWA FALLS, WI	BLANK0000053767	271.5 km
	WHA-TV	D20	DT	CP	MADISON, WI	BLANK0000035690	0.0
	KGCW	D21	DT	CP	BURLINGTON, IA	BLANK0000034909	204.3
	WJYS	D21	DT	CP	HAMMOND, IN	BLANK0000034920	203.4
	WZPX-TV	D21	DT	APP	BATTLE CREEK, MI	BLANK0000068453	335.8
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	29901.5 1,583,693	29602.0	1,578,870	28781.0	1,536,093	28596.5 1,532,170	0.64 0.26

Undesired		Total IX	Unique IX, before		Unique IX, after	
WEUX D21 DT CP	324.8	14,732			184.5	3,923
KGCW D21 DT CP	436.5	13,463	336.3	6,591	308.4	5,373
WJYS D21 DT CP	484.7	36,186	372.5	28,826	328.3	25,775
WZPX-TV D21 DT APP	12.0	488	0.0	0	0.0	0

Interference to BLANK0000064353 CP scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIFS	D21	DT	CP	JANESVILLE, WI	BLANK0000064353	
Undesireds:	WEUX	D21	DT	CP	CHIPPEWA FALLS, WI	BLANK0000053767	271.5 km
	WHA-TV	D20	DT	CP	MADISON, WI	BLANK0000035690	0.0
	KGCW	D21	DT	APP	BURLINGTON, IA	BLANK0000072848	204.3
	WJYS	D21	DT	CP	HAMMOND, IN	BLANK0000034920	203.4

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	29901.5	1,583,693	29602.0	1,578,870	28981.2	1,540,762	28772.9	1,536,544	0.72 0.27

Undesired		Total IX	Unique IX, before		Unique IX, after	
WEUX D21 DT CP	324.8	14,732			208.4	4,218
KGCW D21 DT APP	200.2	8,415	136.1	1,922	132.1	999
WJYS D21 DT CP	484.7	36,186	420.6	29,693	340.2	26,210

Interference to BLANK0000064353 CP scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIFS	D21	DT	CP	JANESVILLE, WI	BLANK0000064353	
Undesireds:	WEUX	D21	DT	CP	CHIPPEWA FALLS, WI	BLANK0000053767	271.5 km
	WHA-TV	D20	DT	CP	MADISON, WI	BLANK0000035690	0.0
	KGCW	D21	DT	CP	BURLINGTON, IA	BLANK0000034909	204.3
	WJYS	D21	DT	CP	HAMMOND, IN	BLANK0000034920	203.4

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	29901.5	1,583,693	29602.0	1,578,870	28781.0	1,536,093	28596.5	1,532,170	0.64 0.26

Undesired		Total IX	Unique IX, before		Unique IX, after	
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WEUX D21 DT CP	324.8	14,732			184.5	3,923
KGCW D21 DT CP	436.5	13,463	336.3	6,591	308.4	5,373
WJYS D21 DT CP	484.7	36,186	384.5	29,314	340.3	26,263

Interference to BLCDT20060405AAI LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WUCW	D22	DT	LIC	MINNEAPOLIS, MN	BLCDT20060405AAI	
Undesireds:	WEUX	D21	DT	CP	CHIPPEWA FALLS, WI	BLANK0000053767	116.2 km
	KPXR-TV	D22	DT	LIC	CEDAR RAPIDS, IA	BLANK0000063428	323.6
	KTCI-TV	D23	DT	LIC	ST. PAUL, MN	BLEDT20100326AAI	1.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
34049.0 3,664,480		33514.8 3,657,236		33442.8 3,650,852		32948.6 3,635,366	1.48 0.42
Undesired		Total IX		Unique IX, before		Unique IX, after	
WEUX D21 DT CP		502.2 19,822				494.2 15,486	
KPXR-TV D22 DT LIC		52.0 5,974		52.0 5,974		44.0 1,638	
KTCI-TV D23 DT LIC		20.0 410		20.0 410		20.0 410	

Interference to proposal scenario 1
8.28% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WEUX	D21	DT	CP	CHIPPEWA FALLS, WI	BLANK0000053767	
Undesireds:	WIFS	D21	DT	CP	JANESVILLE, WI	BLANK0000064353	271.5 km
	WUCW	D22	DT	LIC	MINNEAPOLIS, MN	BLCDT20060405AAI	116.2
Service area		Terrain-limited		IX-free		Percent IX	
18356.6 381,580		17949.8 370,191		17150.2 339,528		4.45 8.28	
Undesired		Total IX		Unique IX		Prcnt Unique IX	
WIFS D21 DT CP		87.6 1,133		87.6 1,133		0.49 0.31	
WUCW D22 DT LIC		712.0 29,530		712.0 29,530		3.97 7.98	