

**K20KF-D CH 33 FI 74376**

**MINOR MODIFICATION:** CHANGE TOWER TO ASR 1052073. NO NEW CONSTRUCTION, APPLICANT WILL COOPERATE WITH OTHER SITE USERS AS NECESSARY. CONTROLLED ACCESS SITE.

Study created: 2024.05.17 09:13:03

Study build station data: LMS TV 2024-04-25

Proposal: K20KF-D D33 LD CP DAVENPORT, IA  
File number: ASR 1052073125 mRCAGL  
Facility ID: 74376  
Station data: User record  
Record ID: 587  
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	W27DF-D	N18-	TX	LIC	QUINCY, IL	BLTTL20011120AAN	178.6 km
No	KFKZ-LD	D32	LD	LIC	CEDAR FALLS, IA	BLANK0000069608	132.9
Yes	KCRG-TV	D32	DT	CP	CEDAR RAPIDS, IA	BLANK0000150618	133.5
Yes	DDKQCT-LP	D32-	LD	APP	DAVENPORT, IA	BLANK0000068394	32.2
No	WTJR	D32	DT	LIC	QUINCY, IL	BLCDT20091110ADL	178.6
No	WOI-DT	D33	LD	CP	AMES, IA	BLANK0000054850	246.0
No	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	431.4
No	WMAQ-TV	D33	DT	CP	CHICAGO, IL	BLANK0000080396	255.6
No	W33EK-D	D33	LD	LIC	EFFINGHAM, IL	BLANK0000099422	316.7
No	WTIU	D33	DT	LIC	BLOOMINGTON, IN	BLANK0000087599	440.5
No	KGKC-LD	D33	LD	LIC	LAWRENCE, KS	BLANK0000063669	426.5
No	KAAL	D33	LD	LIC	AUSTIN, MN	BLCDT20091009AAG	298.5
No	K33MW-D	D33	LD	LIC	MANKATO, MN	BLANK0000206998	404.7
No	K33MN-D	D33	LD	LIC	JEFFERSON CITY, MO	BLANK0000197531	338.9
No	KTVO	D33	DT	LIC	KIRKSVILLE, MO	BLANK0000158746	183.4
No	KTVI	D33	DT	LIC	ST. LOUIS, MO	BLANK0000158068	330.6
No	W33DH-D	D33	LD	LIC	EAU CLAIRE, WI	BLANK0000151894	372.3
No	WLAX	D33	DT	LIC	LA CROSSE, WI	BLANK0000121622	262.3
No	WZAW-LD	D33	LD	LIC	WAUSAU, WI	BLANK0000013771	407.1
No	KQIN	D34	DT	LIC	DAVENPORT, IA	BLEDT20120921ADS	32.2
No	KDIN-TV	D34	DT	CP	DES MOINES, IA	BLANK0000225594	246.7
No	WCIA	D34	DT	LIC	CHAMPAIGN, IL	BLANK0000203664	243.0
No	WCPX-TV	D34	DT	LIC	CHICAGO, IL	BLANK0000087607	255.6
No	WQEC	D34	DT	CP	QUINCY, IL	BLANK0000035763	177.5
No	WQEC	D34	DT	LIC	QUINCY, IL	BLEDT20040715ADL	177.5
No	WWRS-TV	D34	DT	LIC	MAYVILLE, WI	BLANK0000087342	278.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

**Record parameters as studied:**

Channel: D33  
Mask: Full Service  
Latitude: 41 30 3.00 N (NAD83)  
Longitude: 90 40 24.00 W  
Height AMSL: 353.3 m  
HAAT: 0.0 m  
Peak ERP: 15.0 kW  
Antenna: KAT-4X2 UTVC-01/X (ID 1009960) 0.0 deg  
Elev Pattnr: Generic

**50.6 dBu contour:**

Azimuth	ERP	HAAT	Distance
0.0 deg	0.800 kW	131.6 m	31.0 km
45.0	0.180	140.6	23.9
90.0	6.18	161.3	43.4
135.0	11.9	166.9	47.2
180.0	0.588	142.2	30.1

225.0	0.180	149.0	24.5
270.0	6.18	123.8	40.9
315.0	11.9	126.3	44.4

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m    Computed HAAT: 143 m

Distance to Canadian border: 626.4 km

Distance to Mexican border: 1621.6 km

Conditions at FCC monitoring station: Allegan MI  
Bearing: 70.9 degrees    Distance: 408.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 267.8 degrees    Distance: 1231.6 km


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%

No IX check failures found.

**K20KF-D**

BLDTL-20120821AAP  
Latitude: 41-36-22 N  
Longitude: 090-59-36 W  
ERP: 15.00 kW  
Channel: 20  
Frequency: 509.0 MHz  
AMSL Height: 464.2 m  
Elevation: 218.2 m  
Horiz. Pattern: Omni  
Vert. Pattern: Yes  
Elec Tilt: 0.75  
Prop Model: Longley-Rice  
Climate: Cont temperate  
Conductivity: 0.0050  
Dielec Const: 15.0  
Refractivity: 311.0  
Receiver Ht AG: 10.0 m  
Receiver Gain: 0 dB  
Time Variability: 90.0%  
Sit. Variability: 50.0%  
ITM Mode: Broadcast

 Line of Sight

