

FI 186252 K15IS-D
Willmar, MN

Minor Change to change ASR to 1023385, reduce ERP, change antenna make and model. Controlled access site, no new construction.

ASR 1023385 is 130+km from Minneapolis.

Study created: 2022.07.07 10:36:04

Study build station data: LMS TV 2022-07-07

Proposal: K15IS-D D15 LD CP WILLMAR, MN
File number: ASR 1023385 @ 240
Facility ID: 186252
Station data: User record
Record ID: 1208
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	K14LZ-D	D14	LD	LIC	ALEXANDRIA, MN	BLDTL20120312ABZ	90.5 km
No	WCMN-LP	D14+	LD	CP	ST. CLOUD-SARTELL, MN	BLANK0000141562	66.1
No	WCMN-LP	D14+	LD	LIC	ST. CLOUD-SARTELL, MN	BLANK0000178660	66.1
No	K14KE-D	D14	LD	LIC	ST. JAMES, MN	BLANK0000125036	124.4
No	K14RB-D	D14	LD	LIC	ST. PAUL, MN	BLANK0000058751	133.9
No	K14LF-D	D14	LD	LIC	WILLMAR, MN	BLDTT20100218ADS	8.1
No	NEW	D15	LD	CP	DULUTH, MN	BNPDTL20090825AQV	281.2
No	K15GT-D	D15-	LD	LIC	HIBBING, MN	BLANK0000016503	287.0
No	K15GT-D	N15-	TX	LIC	HIBBING, MN	BLTT20040909ABE	287.0
No	KWJM-LD	D15	LD	LIC	Minneapolis, MN	BLANK0000129956	133.9
No	K47JE-D	D15	LD	CP	OLIVIA, MN	BLANK0000053426	49.1
No	K39CH-D	D15	LD	LIC	REDWOOD FALLS, MN	BLANK0000063424	72.0
No	KSMN	D15	DT	LIC	WORTHINGTON, MN	BLEDT20051219AGX	164.7
No	K15MR-D	D15	LD	LIC	FARGO, ND	BLANK0000164640	230.4
No	KGFE	D15	DT	LIC	GRAND FORKS, ND	BLEDT20090619ADI	333.8
No	W15EE-D	D15-	LD	LIC	ASHLAND, WI	BLANK0000067621	353.8
No	WHLA-TV	D15	DT	LIC	LA CROSSE, WI	BLANK0000117843	323.4
No	K16CO-D	D16	LD	LIC	ALEXANDRIA, MN	BLDTL20120312ACF	90.5
No	K16KM-D	D16	LD	LIC	BEMIDJI, MN	BLANK0000121240	219.7
No	K16BQ-D	D16+	LD	LIC	BRAINERD, MN	BLANK0000152329	139.0
No	K16BQ-D	N16+	TX	LIC	BRAINERD, MN	BLTT19880608IT	139.0
No	K46FY-D	D16	LD	LIC	REDWOOD FALLS, MN	BLANK0000063425	72.0
No	KPXM-TV	D16	DT	LIC	ST. CLOUD, MN	BLANK0000054906	122.9
No	K16CG-D	D16	LD	LIC	ST. JAMES, MN	BLDTL20120625AAQ	124.3
No	KKTW-LD	N19-	TX	LIC	Minneapolis, MN	BLTTL19870921IE	66.4

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D15
Mask: Simple
Latitude: 45 11 51.20 N (NAD83)
Longitude: 94 57 0.10 W
Height AMSL: 387.8 m (Adjusted based on actual ground elevation calculation)
HAAT: 0.0 m
Peak ERP: 0.100 kW
Antenna: SBP-UPSL (ID 100733) 240.0 deg

Elev Pattrn: Generic

48.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	21.8 m	2.5 km
45.0	0.000	30.1	2.5
90.0	0.000	26.0	2.5
135.0	0.000	12.2	2.5
180.0	0.008	26.2	5.8
225.0	0.081	40.7	11.7
270.0	0.050	26.3	9.1
315.0	0.001	27.1	3.8

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 26 m

Distance to Canadian border: 379.2 km

Distance to Mexican border: 1793.0 km

Conditions at FCC monitoring station: Grand Island NE

Bearing: 211.9 degrees Distance: 552.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 239.8 degrees Distance: 1008.5 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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%

---- Below is IX received by proposal ASR 1023385 @ 240 ----

Proposal receives 65.02% interference from scenario 1

No IX check failures found.

K15IS-D.C

0000068778

Latitude: 45-09-58 N

Longitude: 095-02-38 W

ERP: 2.00 kW

Channel: 15

Frequency: 479.0 MHz

AMSL Height: 485.8 m

Elevation: 365.8 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