

KHVM-LD Ch 18

Minor Modification: Change to ASR 1057846, change RCAGL and orientation. No new construction, controlled access site. Applicant will cooperate with other users as necessary.

Study created: 2024.05.20 13:00:38

Study build station data: LMS TV 2024-05-17

Proposal: KHVM-LD D18 LD CP MINNEAPOLIS, MN
File number: TJ @ 100
Facility ID: 130940
Station data: User record
Record ID: 595
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	K17NW-D	D17	LD	LIC	ALEXANDRIA, MN	BLANK0000063269	174.0 km
No	K17MX-D	D17	LD	LIC	FROST, MN	BLANK0000062750	159.0
No	K17BV-D	D17	LD	LIC	REDWOOD FALLS, MN	BLD TT20120604AAY	115.3
Yes	KMWE-LD	D17	LD	LIC	SAINT CLOUD, MN	BLANK00000227877	44.5
No	K17MW-D	D17	LD	LIC	ST. JAMES, MN	BLANK0000064441	124.6
No	K17FE-D	D17+	LD	LIC	WADENA, MN	BLANK00000152352	189.3
No	K17FA-D	D17	LD	LIC	WILLMAR, MN	BLD TT20100122ABO	110.7
No	WEAU	D17	DT	LIC	EAU CLAIRE, WI	BLANK00000120880	215.4
Yes	KYIN	D18	DT	LIC	MASON CITY, IA	BLD TT20090612AHJ	185.6
No	K18KG-D	D18	LD	LIC	SPENCER, IA	BLD TL20130327AAU	221.1
No	KRIN	D18	LD	APP	WATERLOO, IA	BLD RTEDT20120604AFO	368.0
No	K18DG-D	D18z	LD	LIC	ALEXANDRIA, MN	BLANK0000024529	174.0
No	KQDS-TV	D18	DT	LIC	DULUTH, MN	BLANK00000120640	231.7
No	K18JM-D	D18	LD	LIC	NORTHOME, MN	BLD TT20111006ACL	317.4
No	K18IR-D	D18	LD	LIC	OLIVIA, MN	BLD TT20120213ABO	99.9
No	K18NE-D	D18	LD	LIC	ST. JAMES, MN	BLANK0000088224	124.6
No	K18MO-D	D18	LD	LIC	WORTHINGTON, MN	BLANK0000064317	223.5
No	K18NP-D	D18	LD	CP	FARGO, ND	BLANK00000193286	315.4
No	K18NP-D	D18	LD	LIC	FARGO, ND	BLANK00000198137	315.4
No	K18NT-D	D18	LD	CP	GRAND FORKS, ND	BLANK00000153437	418.5
No	WBDL-LD	D18	LD	LIC	ELK MOUND, WI	BLANK00000168884	173.6
No	WLUK-TV	D18	DT	LIC	GREEN BAY, WI	BLANK00000199689	451.9
No	WMSN-TV	D18	DT	LIC	MADISON, WI	BLANK00000113879	393.7
No	K18NQ-D	D18-	LD	LIC	RHINELANDER, WI	BLANK00000121379	378.2
No	K19LJ-D	D19	LD	LIC	FROST, MN	BLANK0000062830	159.0
No	KKTW-LD	D19	LD	LIC	Minneapolis, MN	BLANK00000156376	16.0
No	KKTW-LD	N19-	TX	LIC	Minneapolis, MN	BLT TL19870921IE	72.9
No	K19CV-D	D19	LD	LIC	REDWOOD FALLS, MN	BLD TT20120604AAX	115.3
No	K19LI-D	D19	LD	LIC	ST. JAMES, MN	BLANK0000064438	124.6
No	K19IH-D	D19	LD	LIC	WILLMAR, MN	BLD TT20100122ACJ	110.7
No	KVRR	D19	DT	LIC	FARGO, ND	BLCDT20090820ABE	272.6
No	W19EN-D	D19	LD	LIC	RIVER FALLS, WI	BLANK0000060427	76.4
No	KBJR-TV	D19	DT	LIC	SUPERIOR, WI	BLANK0000063392	231.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D18
Mask: Full Service
Latitude: 45 0 10.00 N (NAD83)
Longitude: 93 39 7.00 W
Height AMSL: 394.3 m
HAAT: 0.0 m
Peak ERP: 15.0 kW

Antenna: Dielectric-TUL-LP-C1-3/3M-1-K (ID 1010154) 100.0 deg
Elev Pattn: Generic

49.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.045 kW	88.1 m	14.6 km
45.0	1.17	93.2	31.2
90.0	13.9	90.0	43.2
135.0	5.64	104.7	40.5
180.0	0.013	103.3	11.5
225.0	0.053	94.7	15.2
270.0	0.045	102.5	15.1
315.0	0.030	101.2	14.1

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 97 m

Distance to Canadian border: 370.8 km

Distance to Mexican border: 1823.9 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 222.2 degrees Distance: 597.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 244.4 degrees Distance: 1088.4 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 TJ @ 100 ----

Proposal receives 2.79% interference from scenario 1
No IX check failures found.

asr1057846

0000197038

Latitude: 45-00-10 N

Longitude: 093-39-07 W

ERP: 15.00 kW

Channel: 18

Frequency: 497.0 MHz

AMSL Height: 397.7 m

Elevation: 304.7 m

Horiz. Pattern: Directional

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