

INTERFERENCE ANALYSIS FOR [FACILITY ID 188744], FORT DODGE, IOWA (CHANNEL 17)

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: 188744A, Model: Longley-Rice

Study build station data: LMS TV 2021-11-12

Proposal: 188744 D17 LD APP FORT DODGE, IA
File number: 188744
Facility ID: 188744
Station data: User record
Record ID: 4262
Country: U.S.

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	KDSM-TV	D16	DT	LIC	DES MOINES, IA	BLCDT20110609ABE	104.9 km
No	K16MA-D	D16	LD	LIC	FROST, MN	BLANK0000062831	104.4
No	K16CG-D	D16	LD	LIC	ST. JAMES, MN	BLDTL20120625AAQ	163.2
No	K16NY-D	D16	LD	CP	ELK POINT, SD	BLANK0000157112	209.8
No	K17MH-D	D17	LD	CP	CEDAR FALLS, IA	BLANK0000162737	113.8
No	KWQC-TV	D17	DT	LIC	DAVENPORT, IA	BLANK0000097891	331.5
No	KDIT-CD	D17-	DC	LIC	MARSHALLTOWN, IA	BLANK0000164388	124.9
No	KAAS-TV	D17	DT	CP	SALINA, KS	BLANK0000035657	478.0
No	KAAS-TV	D17	DT	LIC	SALINA, KS	BLCDT20021120AAP	478.0
No	K47OQ-D	D17	LD	LIC	ALEXANDRIA, MN	BLANK0000063269	376.2
No	K17MX-D	D17	LD	LIC	FROST, MN	BLANK0000062750	104.4
No	K17MY-D	D17	LD	LIC	JACKSON, MN	BLANK0000064443	122.1
No	K17BV-D	D17	LD	LIC	REDWOOD FALLS, MN	BLDTT20120604AAY	218.0
No	KMWE-LD	D17	LD	LIC	SAINT CLOUD, MN	BLANK0000163947	278.9
No	K17MW-D	D17	LD	LIC	ST. JAMES, MN	BLANK0000064441	163.2
No	K17FE-D	D17+	LD	LIC	WADENA, MN	BLANK0000152352	419.3
No	K17FA-D	D17	LD	LIC	WILLMAR, MN	BLDTT20100122ABO	285.7
No	KMIZ	D17	DT	CP	COLUMBIA, MO	BLANK0000127487	454.3
No	KMIZ	D17	DT	LIC	COLUMBIA, MO	BLANK0000089534	454.3
No	KAJF-LD	D17	LD	LIC	Kansas city, MO	BLANK0000124483	406.8
No	KYNE-TV	D17	DT	LIC	OMAHA, NE	BLANK0000123806	213.3
No	KDSD-TV	D17	DT	LIC	ABERDEEN, SD	BLEDT20110816AAM	419.2
No	K17PB-D	D17	LD	CP	BRERESFORD, SD	BLANK0000157103	216.8
No	K17NF-D	D17+	LD	LIC	BROOKINGS, SD	BLANK0000059096	278.0
No	K17NF-D	D17+	LD	CP	BROOKINGS, SD	BLANK0000067617	278.0
No	NEW	D17	LD	CP	SIOUX FALLS, SD	BNPDTL20090825AWE	343.8
No	WEAU	D17	DT	LIC	EAU CLAIRE, WI	BLANK0000120880	342.2
No	KYIN	D18	DT	LIC	MASON CITY, IA	BLEDT20090612AHJ	150.9
No	K18KG-D	D18	LD	LIC	SPENCER, IA	BLDTL20130327AAU	90.7
No	K18NE-D	D18	LD	LIC	ST. JAMES, MN	BLANK0000088224	163.2
No	K18MO-D	D18	LD	LIC	WORTHINGTON, MN	BLANK0000064317	160.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D17
Mask: Simple
Latitude: 42 40 5.00 N (NAD83)
Longitude: 94 12 9.00 W
Height AMSL: 390.5 m
HAAT: 46.0 m
Peak ERP: 0.500 kW
Antenna: KAT-CL-1469B 270.0 deg
Elev Pattnr: Generic
Elec Tilt: 0.50

49.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	46.2 m	2.0 km
45.0	0.000	45.4	2.0
90.0	0.000	44.3	2.0
135.0	0.000	46.4	2.1
180.0	0.000	60.0	2.3
225.0	0.025	40.7	8.7
270.0	0.500	37.8	17.6
315.0	0.025	45.5	9.2

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Distance to Canadian border: 631.9 km

Distance to Mexican border: 1570.6 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 242.4 degrees Distance: 400.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 256.8 degrees Distance: 959.6 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%

Interference to BLCDT20110609ABE LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KDSM-TV	D16	DT	LIC	DES MOINES, IA	BLCDT20110609ABE	
Undesireds:	188744	D17	LD	APP	FORT DODGE, IA	188744	104.9 km
	KYOU-TV	D15	DT	LIC	OTTUMWA, IA	BLANK0000001581	155.2
	WTVO	D16	DT	LIC	ROCKFORD, IL	BLCDT20021024AAS	370.2
	WRSP-TV	D16	DT	LIC	SPRINGFIELD, IL	BLANK0000117317	415.6
	KTCA-TV	D16	DT	LIC	TOPEKA, KS	BLANK0000122453	367.5
	KPXM-TV	D16	DT	LIC	ST. CLOUD, MN	BLANK0000054906	390.2
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
45439.2	1,098,955	45228.6	1,098,414	45134.1	1,098,071	45038.2 1,097,791	0.21 0.03
Undesired				Total IX	Unique IX, before	Unique IX, after	
188744 D17 LD APP				95.8 280		95.8 280	
KYOU-TV D15 DT LIC				68.5 254	68.5 254	68.5 254	
WTVO D16 DT LIC				11.0 71	11.0 71	11.0 71	
KTCA-TV D16 DT LIC				4.0 0	4.0 0	4.0 0	
KPXM-TV D16 DT LIC				11.1 18	11.1 18	11.1 18	

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	188744	D17	LD	APP	FORT DODGE, IA	188744	
Undesireds:	K17NF-D	D17+	LD	LIC	BROOKINGS, SD	BLANK0000059096	278.0 km
Service area		Terrain-limited		IX-free		Percent IX	
200.9	583	200.9	583	200.9	583	0.00 0.00	
