

INTERFERENCE ANALYSIS FOR PROPOSED KIFI-TV, IDAHO FALLS, IDAHO CHANNEL 18, 500 KW (MAX-DA), 444 M HAAT

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: kifil8da6 #6515, Model: Longley-Rice

Study build station data: LMS TV 2023-03-21 #941

Proposal: KIFI18DA6 D18 DT APP IDAHO FALLS, ID
File number: kifil8da6
Facility ID: 66258
Station data: User record
Record ID: 5058
Country: U.S.
Zone: II

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	KISU-TV	D17	DD	LIC	POCATELLO, ID	BLANK0000017402	0.0 km
No	KCLP-CD	D18	DC	LIC	BOISE, ID	BLANK0000007378	277.8
No	KSVI	D18	DT	LIC	BILLINGS, MT	BLCDT20090205ABS	427.1

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
Latitude: 43 30 4.00 N (NAD83)
Longitude: 112 39 46.00 W
Height AMSL: 2012.0 m
HAAT: 444.0 m
Peak ERP: 500 kW
Antenna: DIE-TFU-25EST/VP-R C170 130.0 deg
Elev Pattn: Generic
Elec Tilt: 0.75

39.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	87.8 kW	443.0 m	91.8 km
45.0	449	381.6	101.0
90.0	471	405.6	103.4
135.0	443	466.3	108.0
180.0	487	504.6	112.0
225.0	385	445.3	104.9
270.0	37.5	454.1	86.4
315.0	21.5	455.1	82.7

Distance to Canadian border: 611.1 km

Distance to Mexican border: 1211.8 km

Conditions at FCC monitoring station: Ferndale WA
Bearing: 312.1 degrees Distance: 971.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 118.7 degrees Distance: 717.3 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%

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Interference to BLANK0000017402 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KISU-TV	D17	DD	LIC	POCATELLO, ID	BLANK0000017402	
Undesireds:	KIFI18DA6	D18	DT	APP	IDAHO FALLS, ID	kifil8da6	0.0 km
	K17ED-D	D17	DC	LIC	PAYETTE, ID	BLDTA20141002AAE	346.3
	KBYU-TV	D17	DT	LIC	PROVO, UT	BLANK0000064428	318.2
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
30873.6	311,827		27483.6	307,651	27395.8	307,594	0.01 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
KIFI18DA6 D18 DT APP			4.0	0		4.0	0
KBYU-TV D17 DT LIC			87.8	57	87.8	57	

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KIFI18DA6	D18	DT	APP	IDAHO FALLS, ID	kifil8da6	
	Service area		Terrain-limited		IX-free	Percent IX	
30864.4	314,687		28603.7	311,387	28603.7	311,387	0.00 0.00
