Study created: 2021.07.29 18:51:05

Study build station data: LMS TV 2021-07-22

Proposal: KPXH-LD D16 LD STA FORT COLLINS, CO
File number: BLANK0000010915
Facility ID: 18509
Station data: User record
Record ID: 1120
Country: U.S.

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K15MH-D	D15	LD	LIC	ANTON, CO	BLANK0000117462	175.1 km
Yes	KETD	D15	DT	LIC	CASTLE ROCK, CO	BLANK0000120249	97.3
Yes	K16NJ-D	D16	LD	LIC	ANTON, CO	BLANK0000117465	175.1
No	K16KW-D	D16	LD	CP	ARRIBA, CO	BNPDTL20100514AFD	211.5
Yes	KQDK-CD	D16	DC	LIC	DENVER, CO	BLANK0000071650	100.7
No	K16LF-D	D16	LD	LIC	EADS, ETC., CO	BLANK0000001780	306.6
No	K16MR-D	D16	LD	LIC	GATEWAY, CO	BLANK0000072778	369.5
No	K16EK-D	D16	LD	LIC	IDALIA, CO	BLDTT20110502ABA	247.9
No	K16DR-D	D16	LD	CP	JACK'S CABIN, CO	BPDTT20150123AHD	246.1
No	K16DR-D	D16	LD	LIC	JACK'S CABIN, CO	BLDTT20100301AAL	246.1
Yes	K16EJ-D	D16	LD	LIC	PEETZ, CO	BLDTT20101115EOW	170.2
No	K16ET-D	D16	LD	LIC	PLEASANT VALLEY, CO	BLDTT20110613AAS	260.5
No	K16KA-D	D16	LD	LIC	PUEBLO, CO	BLANK0000005043	289.7
No	KOAA-TV	D16	LD	LIC	PUEBLO, CO	BLANK0000121583	173.7
No	K48LW-D	D16	LD	CP	REDSTONE, CO	BLANK0000080466	225.4
No	K16FS-D	D16	LD	LIC	WOODY CREEK, CO	BLDTT20100308AAM	202.8
No	K16NH-D	D16	LD	LIC	WRAY, CO	BLANK0000072276	257.8
No	K16KX-D	D16	LD	CP	GOODLAND, KS	BNPDTL20100514AFY	324.9
No	KCLO-TV	D16	DT	LIC	RAPID CITY, SD	BLCDT20060207ABK	423.1
No	K16JI-D	D16	LD	LIC	CASPER, WY	BLANK0000008309	273.7
Yes	KKTQ-LD	D16	LD	LIC	CHEYENNE, WY	BLDTL20110602ACH	70.0
No	K16IO-D	D16	LD	LIC	CHUGWATER, WY	BLDTT20101104AAK	139.6
No	K17KX-D	D17	LD	LIC	ANTON, CO	BLDTT20120110AEM	175.1
No	K17OE-D	D17	LD	LIC	COLORADO SPRINGS, CO	BLANK0000083049	202.3
Yes	KPJR-TV	D17	DT	LIC	GREELEY, CO	BLANK0000071955	55.6
No	KTWO-TV	D17	DT	LIC	CASPER, WY	BLCDT20110315ABB	262.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

```
    Channel: D16
       Mask: Full Service
   Latitude:  40 32 46.50 N (NAD83)
  Longitude: 105 11 51.90 W
Height AMSL: 2190.4 m (Adjusted based on actual ground elevation calculation)
       HAAT: 0.0 m
   Peak ERP: 11.0 kW
    Antenna: KAT-4DR-4S ARRAY (ID 93795) 0.0 deg
Elev Pattrn: Generic
```

48.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	1.55 kW	479.6 m	52.8 km
45.0	7.65	624.0	66.7
90.0	9.95	644.3	69.0
135.0	2.72	586.5	59.1
180.0	0.059	546.2	34.6
225.0	0.070	192.0	24.2
270.0	0.054	5.7	9.2
315.0	0.030	91.1	13.5

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 396 m

Distance to Canadian border: 939.6 km

Distance to Mexican border: 981.2 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 83.6 degrees Distance: 571.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 182.8 degrees Distance: 47.7 km
ERP: 0.049 kW Field strength: 52.9 dBu, 0.4 mV/m

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%

No IX check failures found.