



KISU-TV - POCA TELLO, IDAHO **MARCH 2024** **APPENDIX B** **172 kW - Channel 17** **Longley-Rice Interference Analysis**

tvstudy v2.2.5 (4uoc83)
 Database: localhost, Study: KISU 17 DTS BLANK0000017402, Model: Longley-Rice
 Start: 2024.03.06 13:44:11

Study created: 2024.03.06 13:44:11

Study build station data: LMS TV 2024-03-04 #491

Proposal: KISU-TV D17 DD LIC POCA TELLO, ID
 File number: BLANK0000017402
 Facility ID: 62430
 Station data: LMS TV 2024-03-04 #491
 Record ID: 25076f91571f5d140158076920f37057
 Country: U.S.
 Zone: II
 Ref. lat.: 43 30 4.20 N
 Ref. long.: 112 39 44.50 W
 # DTS sites: 2

Build options:
 Protect pre-transition records not on baseline channel

Search options:
 Non-U.S. records included
 Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K17ED-D	D17	DC	LIC	PAYETTE, ID	BLDTA20141002AAE	346.3 km
No	K17ED-D	D17	DC	CP	PAYETTE, ID	BLANK0000127573	346.3
Yes	KBYU-TV	D17	DT	LIC	PROVO, UT	BLANK0000064428	318.2
Yes	KIFI-TV	D18	DT	CP	IDAHO FALLS, ID	BLANK0000228040	0.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied, DTS site # 1:

Channel: D17
 Latitude: 43 30 4.20 N (NAD83)
 Longitude: 112 39 44.50 W
 Height AMSL: 2032.4 m
 HAAT: 464.8 m
 Peak ERP: 172 kW
 Antenna: Omnidirectional
 Elev Pattn: DIE-TFU-32DSB-B
 Elec Tilt: 1.00

39.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	172 kW	463.0 m	98.9 km
45.0	172	402.1	94.7

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90.0	172	426.2	96.2
135.0	172	486.4	100.9
180.0	172	524.7	104.0
225.0	172	465.7	99.1
270.0	172	474.3	99.8
315.0	172	475.5	99.9

Record parameters as studied, DTS site # 2:

Channel: D17
Latitude: 42 52 0.40 N (NAD83)
Longitude: 112 30 51.00 W
Height AMSL: 1794.1 m
HAAT: 281.0 m
Peak ERP: 0.130 kW
Antenna: SCA-4DR-8S (ID 20753) 110.0 deg
Elev Pattn: SCA-4DR-8S

39.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	431.3 m	5.6 km
45.0	0.010	337.4	31.9
90.0	0.109	215.2	39.4
135.0	0.097	165.9	36.0
180.0	0.003	-136.7	7.5
225.0	0.000	302.0	2.4
270.0	0.000	418.3	18.8
315.0	0.000	441.3	14.5

Database HAAT does not agree with computed HAAT
Database HAAT: 281 m Computed HAAT: 272 m

****DTS proposal has coverage outside reference facility and distance limit**

Distance to Canadian border: 611.0 km

Distance to Mexican border: 1144.3 km

Conditions at FCC monitoring station: Livermore CA
DTS site # 1 Bearing: 233.1 degrees Distance: 999.3 km
DTS site # 2 Bearing: 236.9 degrees Distance: 968.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
DTS site # 1 Bearing: 118.7 degrees Distance: 717.3 km
DTS site # 2 Bearing: 114.1 degrees Distance: 675.1 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%

Interference to BLANK0000064428 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KBYU-TV	D17	DT	LIC	PROVO, UT	BLANK0000064428	
Undesireds:	KISU-TV	D17	DD	BL	POCATELLO, ID	DTVBL62430	318.1 km
	KISU-TV	D17	DD	LIC	POCATELLO, ID	BLANK0000017402	318.2

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Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
53104.7 2,389,548	36976.9 2,209,060	36916.5 2,207,884	36896.2 2,207,884	0.05 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KISU-TV D17 DD BL	60.5 1,176	60.5 1,176	
KISU-TV D17 DD LIC	80.7 1,176		80.7 1,176

Interference to BLANK0000228040 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KIFI-TV	D18	DT	CP	IDAHO FALLS, ID	BLANK0000228040	
Undesireds:	KISU-TV	D17	DD	BL	POCATELLO, ID	DTVBL62430	0.2 km
	KISU-TV	D17	DD	LIC	POCATELLO, ID	BLANK0000017402	0.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
30864.4 314,687	28603.7 311,387	28563.7 311,387	28603.7 311,387	-0.14 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KISU-TV D17 DD BL	40.1 0	40.1 0	
KISU-TV D17 DD LIC	0.0 0		0.0 0

Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KISU-TV	D17	DD	LIC	POCATELLO, ID	BLANK0000017402	
Undesireds:	K17ED-D	D17	DC	LIC	PAYETTE, ID	BLDTA20141002AAE	346.3 km
	KBYU-TV	D17	DT	LIC	PROVO, UT	BLANK0000064428	318.2
	KIFI-TV	D18	DT	CP	IDAHO FALLS, ID	BLANK0000228040	0.0

Service area	Terrain-limited	IX-free	Percent IX
30873.6 311,827	27483.6 307,651	27391.8 307,594	0.33 0.02

Undesired	Total IX	Unique IX	Prcnt Unique IX
KBYU-TV D17 DT LIC	87.8 57	87.8 57	0.32 0.02
KIFI-TV D18 DT CP	4.0 0	4.0 0	0.01 0.00