INTERFERENCE ANALYSIS FOR PROPOSED K17HM-D, WENDOVER, UT, CHANNEL 16

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: k17hm16p1, Model: Longley-Rice

Study build station data: LMS TV 2018-04-16 #172

    Proposal: K17HM16P1 D16 LD APP WENDOVER, UT
 File number: k17hm16p1
 Facility ID: 22217
Station data: User record
   Record ID: 2625
     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	KPIF	D15	DT	LIC	POCATELLO, ID	BLANK0000001051	267.3 km
No	KPIF	D15	DT	APP	POCATELLO, ID	BLANK0000035740	267.3
No	KSAW-LD	D15	LD	LIC	TWIN FALLS, ID	BLDTL20140325AEJ	223.2
No	K15EE-D	D15	LD	LIC	ELKO, NV	BLDTT20090716AAC	140.4
No	K15EE-D	D15	LD	CP	ELKO, NV	BPDTT20120514AEU	140.1
No	KBTU-LD	D15+	LD	APP	SALT LAKE CITY, UT	BLANK0000052467	154.6
Yes	K15GZ-D	D15	LD	LIC	WENDOVER, UT	BLDTT20110928ADG	0.0
No	KKIC-LD	D16	LD	LIC	BOISE, ID	BLANK0000016312	375.4
No	KKIC-LD	N16-	TX	LIC	BOISE, ID	BLTTL20060419AAE	375.4
No	K16HQ-D	D16	LD	LIC	GEORGETOWN, ID	BLDTT20111115AGU	286.7
No	K16JE-D	D16	LD	LIC	GLENNS FERRY, ID	BLDTT20110325AAL	266.3
No	K16IX-D	D16	LD	LIC	PRESTON, ID	BLDTT20111005AJB	243.2
No	K16FD-D	D16	LD	LIC	BATTLE MOUNTAIN, NV	BLDTT20110902ACE	224.0
No	K16IZ-D	D16	LD	LIC	EUREKA, NV	BLDTT20111230AAM	213.4
No	K16KT-D	D16	LD	CP	IMLAY, NV	BNPDTL20100512AHG	353.1
No	K16LG-D	D16	LD	LIC	LUND & PRESTON, NV	BLANK0000029300	185.0
No	K16JZ-D	D16	LD	LIC	MCDERMITT, NV	BLDTL20120524AGS	342.8
Yes	K16KU-D	D16	LD	CP	ROCKY POINT, NV	BNPDTL20100512AHY	61.5
No	K16FV-D	D16	LD	LIC	RYNDON, NV	BLDTT20111219AAX	134.9
No	K16HC-D	D16	LD	LIC	CAPITOL REEF NATIONA, UT	BLDTT20091230AAN	359.5
No	K47IS-D	D16	LD	APP	CEDAR CITY, UT	BLANK0000052853	355.6
No	K16HV-D	D16	LD	LIC	MAYFIELD, UT	BLDTT20090831AAK	268.1
No	K16BO-D	D16	LD	LIC	MILFORD, ETC., UT	BLDTT20070213ABE	255.0
No	K16IB-D	D16	LD	LIC	MOUNT PLEASANT, UT	BLDTT20100506ADJ	261.7
No	K23KB-D	D16	LD	APP	NEPHI, UT	BLANK0000052609	210.1
No	K16EW	N16	TX	LIC	ORANGEVILLE, UT	BLTT20030806ABU	299.6
No	KULU-LD	D16	LD	LIC	PARK CITY, UT	BLDTL20120618AAV	215.4
No	K43JV	D16-	LD	APP	PROVO, UT	BLANK0000049057	185.9
No	K16EQ-D	D16	LD	LIC	RURAL GARFIELD COUNT, UT	BLDTT20071113ACE	296.7
No	K16HE-D	D16	LD	LIC	SIGURD & SALINA, UT	BLDTT20101123AAD	277.4
No	K43KI-D	D16	LD	APP	TEASDALE,TORREY, UT	BLANK0000052680	348.6
No	K16HW-D	D16	LD	CP	EVANSTON, ETC., WY	BPDTT20120127ADQ	271.7
No	K16HW-D	D16	LD	LIC	EVANSTON, ETC., WY	BLDTT20090608AAV	271.7
No	KYTL-LD	D17	LD	LIC	TWIN FALLS, ID	BLANK0000010618	223.2
No	K17DT-D	D17	LD	CP	ELKO, NV	BPDTT20120514AEV	140.1
No	K17DT-D	D17	LD	LIC	ELKO, NV	BLDTT20090716AAD	140.4
No	KQTI-LD	D17	LD	LIC	OGDEN, UT	BLANK0000030102	176.2
No	KQTI-LD	D17	LD	CP	OGDEN, UT	BLANK0000035330	178.1
No	KBYU-TV	D17	DT	CP	PROVO, UT	BLANK0000029863	154.9
No	KBTU-LD	N23+	TX	LIC	SALT LAKE CITY, UT	BLTTL20060406AAE	155.0

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: Stringent
   Latitude: 40 44 28.40 N (NAD83)
  Longitude: 114 2 14.40 W
Height AMSL: 1410.2 m (Adjusted based on actual ground elevation calculation)
       HAAT: 0.0 m
   Peak ERP: 0.133 kW
    Antenna: SCA-4DR-8-2HW (ID 20751) 180.0 deg
Elev Pattrn: Generic

48.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	-37.8 m	1.7 km
45.0	0.000	-40.6	1.7
90.0	0.067	123.9	19.5
135.0	0.117	124.0	22.4
180.0	0.133	123.0	23.0
225.0	0.123	44.4	13.4
270.0	0.068	-117.0	9.7

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315.0 0.000 -121.6 1.7

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 12 m

Distance to Canadian border: 917.8 km

Distance to Mexican border: 893.8 km

Conditions at FCC monitoring station: Livermore CA
Bearing: 245.7 degrees Distance: 743.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 92.2 degrees Distance: 745.5 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 BLDTT20110928ADG LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K15GZ-D	D15	LD	LIC	WENDOVER, UT	BLDTT20110928ADG	
Undesireds:	K17HM16P1	D16	LD	APP	WENDOVER, UT	k17hm16p1	0.0 km
	KPIF	D15	DT	LIC	POCATELLO, ID	BLANK0000001051	267.3
	K15EE-D	D15	LD	LIC	ELKO, NV	BLDTT20090716AAC	140.4
	KBTU-LD	D15+	LD	APP	SALT LAKE CITY, UT	BLANK0000052467	154.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
384.0	5,810	368.1	5,810	366.1	5,810	356.2	5,763	2.71	0.81

Undesired	Total IX	Unique IX, before		Unique IX, after	
K17HM16P1 D16 LD APP	9.9	47		9.9	47
KBTU-LD D15+ LD APP	2.0	0	2.0	0	2.0	0

Interference to BNPDTL20100512AHY CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K16KU-D	D16	LD	CP	ROCKY POINT, NV	BNPDTL20100512AHY	
Undesireds:	K17HM16P1	D16	LD	APP	WENDOVER, UT	k17hm16p1	61.5 km
	K15EE-D	D15	LD	LIC	ELKO, NV	BLDTT20090716AAC	100.9
	K15GZ-D	D15	LD	LIC	WENDOVER, UT	BLDTT20110928ADG	61.5
	KKIC-LD	D16	LD	LIC	BOISE, ID	BLANK0000016312	318.2
	K16HW-D	D16	LD	CP	EVANSTON, ETC., WY	BPDTT20120127ADQ	307.8
	K17DT-D	D17	LD	CP	ELKO, NV	BPDTT20120514AEV	101.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
8879.9	2,134	5667.4	1,687	5666.4	1,687	5665.5	1,687	0.02	0.00

Undesired	Total IX	Unique IX, before		Unique IX, after	
K17HM16P1 D16 LD APP	2.0	0		1.0	0
K15GZ-D D15 LD LIC	1.0	0	1.0	0	0.0	0

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K17HM16P1	D16	LD	APP	WENDOVER, UT	k17hm16p1	
Undesireds:	K15GZ-D	D15	LD	LIC	WENDOVER, UT	BLDTT20110928ADG	0.0 km
	K16KU-D	D16	LD	CP	ROCKY POINT, NV	BNPDTL20100512AHY	61.5
	K16HW-D	D16	LD	CP	EVANSTON, ETC., WY	BPDTT20120127ADQ	271.7

Service area		Terrain-limited		IX-free		Percent IX	
640.8	5,810	623.8	5,810	600.9	5,810	3.67	0.00

Undesired	Total IX	Unique IX	Prcnt Unique IX	
K15GZ-D D15 LD LIC	1.0	0	1.0	0	0.16	0.00
K16KU-D D16 LD CP	21.9	0	21.9	0	3.51	0.00
