tvstudy v2.2.4 (Z2Qqz3)

Database: localhost, Study: K49EB\_ch20\_SCA-PR450U\_306deg,

Model: Longley-Rice

Start: 2018.03.07 09:21:48

Study created: 2018.03.07 09:21:47

Study build station data: LMS TV 2018-03-07 (291)

 Proposal: K49EB-D D20 LD LIC GARDEN VALLEY, ID

 File number: K49EB\_ch20\_SCA-PR450U\_306deg

 Facility ID: 23145

Station data: User record

 Record ID: 48

 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 KKIC-LD N16- TX LIC BOISE, ID BLTTL20060419AAE 42.3 km

No NEW D19 LD APP BOISE, ID BNPDTL20090825BBI 78.6

No NEW D19 LD APP NAMPA, ID BNPDTL20090825BEW 74.5

No KZTN-LD D20 LD LIC BOISE, ID BLANK0000005170 45.9

No KZTN-LD D20 LD CP BOISE, ID BLANK0000031961 41.7

No KTFT-LD D20 LD LIC TWIN FALLS, ID BLDTL20080813AAO 184.0

No K20KL-D D20 LD CP DRUMMOND, MT BLANK0000019042 352.6

No K20KL-D D20 LD LIC DRUMMOND, MT BLDTT20131122AWR 352.6

No K20LX-D D20 LD CP GLEN, MT BNPDTL20100609AIO 294.5

No K20LA-D D20 LD CP MISSOULA, MT BNPDTL20100505AFQ 339.6

No K20JQ-D D20 LD LIC WELLS, NV BLDTT20090709AOP 324.1

No K20IV-D D20 LD LIC BAKER CITY, ETC., OR BLDTT20120418AAB 168.7

No KQRE-LD D20 LD LIC BEND, OR BLDTL20120523ACJ 411.8

No K40FM-D D20 LD APP MILTON-FREEWATER, OR BLANK0000030149 277.1

No K20ES N20z TX LIC PENDLETON, ETC., OR BLTTL19960301JC 304.8

No K20KG-D D20 LD LIC PASCO, WA BLDTL20140224ABY 367.7

No KREM D20 DT LIC SPOKANE, WA BLCDT20050623ABG 411.6

No KAID D21 DD LIC BOISE, ID BLEDT20120719ABH 39.0

No K21ME-D D21 LD CP TWIN FALLS, ID BNPDTL20100507ACP 184.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

 Channel: D20

 Mask: Stringent

 Latitude: 44 2 21.64 N (NAD83)

 Longitude: 115 48 44.86 W

Height AMSL: 1612.5 m (Adjusted based on actual ground elevation calculation)

 HAAT: 0.0 m

 Peak ERP: 0.032 kW

 Antenna: SCA-PR45OU (ID 97634) 306.0 deg rotation.

Elev Pattrn: Generic

49.4 dBu contour:

Azimuth ERP HAAT Distance

 0.0 deg 0.000 kW 28.4 m 2.1 km

 45.0 0.000 5.2 2.1

 90.0 0.000 -133.4 1.8

135.0 0.000 -582.9 1.5

180.0 0.000 -36.2 2.2

225.0 0.000 133.6 3.9

270.0 0.000 352.9 8.1

315.0 0.022 329.0 23.3

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 12 m

Distance to Canadian border: 551.5 km

Distance to Mexican border: 1261.8 km

Conditions at FCC monitoring station: Ferndale WA

Bearing: 319.1 degrees Distance: 750.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 112.8 degrees Distance: 971.1 km

No land mobile station failures found

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%

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Interference to proposal scenario 1

 Call Chan Svc Status City, State File Number Distance

Desired: K49EB-D D20 LD LIC GARDEN VALLEY, ID K49EB\_ch20\_SCA-PR450U\_

Undesireds: KZTN-LD D20 LD LIC BOISE, ID BLANK0000005170 45.9 km

 Service area Terrain-limited IX-free Percent IX

 282.2 1,461 254.0 851 254.0 851 0.00 0.00