tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: K06QR_MOD_CP HGT, Model: Longley-Rice
Start: 2021.09.28 14:54:53

Study created: 2021.09.28 14:54:53

Study build station data: LMS TV 2021-09-12

    Proposal: K06QR-D D6 LD APP EUGENE, OR
 File number: K06QR_MOD_CP HGT
 Facility ID: 181635
Station data: User record
   Record ID: 753
     Country: U.S.

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
Yes	KAMK-LD	D5	LD	LIC	EUGENE, OR	BLANK0000063188	0.1 km
Yes	KOBI	D5	DT	LIC	MEDFORD, OR	BLCDT20091023ACQ	145.4
No	DDKRCW-LP	D5	LD	APP	PORTLAND, OR	BLDVL20140905AAV	171.0
No	K06KA-D	D6	LD	LIC	FORT JONES, ETC., CA	BLANK0000016526	282.3
No	KNNN-LP	N6+	TX	LIC	REDDING, CA	BLTVL20060918ACG	375.3
No	KNNN-LP	D6+	LD	CP	REDDING, CA	BLANK0000013749	375.3
No	K06NS-D	D6	LD	LIC	CHILOQUIN, OR	BLDTV20090126ABJ	222.5
Yes	KPWC-LD	D6	LD	LIC	TILLAMOOK, OR	BLANK0000157489	108.4
No	KYMU-LD	D6	LD	LIC	SEATTLE, WA	BLANK0000081648	407.8
No	KYMU-LD	D6	LD	CP	SEATTLE, WA	BLANK0000106741	407.8
No	K06PU-D	D6	LD	CP	YAKIMA, WA	BNPDVL20091123AJK	358.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D6
       Mask: Full Service
   Latitude: 44 0 7.00 N (NAD83)
  Longitude: 123 6 54.00 W
Height AMSL: 466.6 m
       HAAT: 0.0 m
   Peak ERP: 0.390 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic
  Elec Tilt: 3.00

43.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.390 kW	346.8 m	52.7 km
45.0	0.390	290.1	49.7
90.0	0.390	259.0	47.8
135.0	0.390	266.5	48.2
180.0	0.390	149.1	39.9
225.0	0.390	236.2	46.4
270.0	0.390	308.8	50.7
315.0	0.390	336.0	52.2

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m   Computed HAAT: 274 m

Distance to Canadian border: 470.5 km

Distance to Mexican border: 1360.0 km

Conditions at FCC monitoring station: Ferndale WA
Bearing: 4.3 degrees   Distance: 552.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 100.0 degrees Distance: 1530.9 km

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 BLANK0000063188 LIC scenario 1
**IX: 4.42% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KAMK-LD	D5	LD	LIC	EUGENE, OR	BLANK0000063188	
Undesireds:	K06QR-D	D6	LD	APP	EUGENE, OR	K06QR_MOD_CP HGT	0.1 km
	KOBI	D5	DT	LIC	MEDFORD, OR	BLCDT20091023ACQ	145.5
	DDKRCW-LP	D5	LD	APP	PORTLAND, OR	BLDVL20140905AAV	170.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
2474.8	285,029	2310.1	283,692	2131.3	281,250	2035.4	268,818	4.50	4.42

Undesired	Total IX		Unique IX, before		Unique IX, after	
K06QR-D D6 LD APP	116.1	12,743			95.9	12,432
KOBI D5 DT LIC	163.8	2,271	158.7	2,236	138.5	1,925
DDKRCW-LP D5 LD APP	20.1	206	15.1	171	15.1	171

Interference to BLCDT20091023ACQ LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KOBI	D5	DT	LIC	MEDFORD, OR	BLCDT20091023ACQ	
Undesireds:	K06QR-D	D6	LD	APP	EUGENE, OR	K06QR_MOD_CP HGT	145.4 km

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
54123.3	571,253	50238.4	526,165	50238.4	526,165	50198.9	525,881	0.08	0.05

Undesired	Total IX		Unique IX, before		Unique IX, after	
K06QR-D D6 LD APP	39.5	284			39.5	284

Interference to BLANK0000157489 LIC scenario 1
**IX: 8.33% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KPWC-LD	D6	LD	LIC	TILLAMOOK, OR	BLANK0000157489	
Undesireds:	K06QR-D	D6	LD	APP	EUGENE, OR	K06QR_MOD_CP HGT	108.4 km
	DDKRCW-LP	D5	LD	APP	PORTLAND, OR	BLDVL20140905AAV	67.9
	KYMU-LD	D6	LD	LIC	SEATTLE, WA	BLANK0000081648	301.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
13037.1	1,384,184	12390.8	1,319,299	12082.0	991,839	11457.3	909,212	5.17	8.33

Undesired	Total IX		Unique IX, before		Unique IX, after	
K06QR-D D6 LD APP	625.7	84,026			624.7	82,627
DDKRCW-LP D5 LD APP	308.8	327,460	308.8	327,460	307.8	326,061

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K06QR-D	D6	LD	APP	EUGENE, OR	K06QR_MOD_CP HGT	
Undesireds:	KAMK-LD	D5	LD	LIC	EUGENE, OR	BLANK0000063188	0.1 km
	KPWC-LD	D6	LD	LIC	TILLAMOOK, OR	BLANK0000157489	108.4

Service area		Terrain-limited		IX-free		Percent IX	
7491.6	345,194	7136.6	343,313	6450.7	337,533	9.61	1.68

Undesired	Total IX	Unique IX	Prcnt Unique IX

KAMK-LD D5 LD LIC	1.0	0	1.0	0	0.01	0.00
KPWC-LD D6 LD LIC	684.9	5,780	684.9	5,780	9.60	1.68