Note:
Study cell size: 1.00 km
Profile point spacing: 0.10 km

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: K38NC_Ch30_Omni_Hgt_Pre, Model: Longley-Rice
Start: 2019.04.18 10:59:38

Study created: 2019.04.18 10:57:46

Study build station data: LMS TV 2019-04-18

    Proposal: K38NC-D D30 LD APP ASTORIA, OR
 File number: K38NC_Ch30_Omni_Hgt
 Facility ID: 185410
Station data: User record
   Record ID: 849
     Country: U.S.

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

Search options:
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K26DB-D	N26-	TX	LIC	ASTORIA, OR	BLTT19911016IG	11.9 km
No	KEPB-TV	D29	DT	LIC	EUGENE, OR	BLEDT20050127AHY	267.6
No	K29AZ-D	D29	LD	LIC	NEWPORT, OR	BLDTT20111208ABT	173.6
No	K29LW-D	D29	LD	LIC	Rockaway Beach, OR	BLANK0000063315	64.3
No	K29IA-D	D29	LD	LIC	CENTRALIA, ETC., WA	BLDTT20090618ABC	80.1
No	K29IB-D	D29	LD	LIC	GRAYS RIVER, ETC., WA	BLDTT20100511ACN	41.1
No	KOAB-TV	D30	LD	LIC	BEND, OR	BLEDT20111104AIS	276.6
No	K30BN-D	D30	LD	LIC	COOS BAY, OR	BLDTL20101122ADU	325.2
No	K30OC-D	D30	LD	LIC	COTTAGE GROVE, OR	BLANK0000063681	293.1
No	K30MO-D	D30	LD	CP	EUGENE, OR	BNPDTL20100728ADJ	262.5
No	K30JT-D	D30	LD	LIC	LA PINE, OR	BLDTT20100106ABC	360.8
No	K30LH-D	D30	LD	CP	ROSEBURG, OR	BNPDTL20090825BHI	350.2
No	K30QF-D	D30	LD	LIC	HERMISTON, WA	BLANK0000063991	367.5
No	K30FL-D	D30	LD	LIC	PORT ANGELES, WA	BLDTT20090611AAF	205.0
Yes	KOMO-TV	D30	DT	CP	SEATTLE, WA	BLANK0000034249	194.4
Yes	KPDX	D30	DT	LIC	VANCOUVER, WA	BLCDT20090612ADJ	133.7
No	K30KA-D	D30	LD	CP	WENATCHEE, WA	BDCCDTT20061030AGI	296.6
No	KUNW-CD	D30	DC	LIC	YAKIMA, WA	BLDTL20090923ACQ	271.9
No	KLSR-TV	D31	DT	LIC	EUGENE, OR	BLCDT20070104ADQ	267.7
No	K31HK-D	D31	LD	LIC	RAINIER, OR	BLDTT20130715ACQ	93.3
No	KONG	D31	DT	LIC	EVERETT, WA	BLANK0000001601	194.5
No	KONG	D31	DT	APP	EVERETT, WA	BPCDT20080617AEE	194.5
No	K31IR-D	D31	LD	LIC	GRAYS RIVER, WA	BLDTT20100222AAX	41.1
No	KEVE-LD	D31	LD	CP	VANCOUVER, WA	BLANK0000054548	134.1

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D30
       Mask: Full Service
   Latitude: 46 19 4.60 N (NAD83)
  Longitude: 124 2 44.70 W
Height AMSL: 50.0 m
       HAAT: 0.0 m
   Peak ERP: 15.0 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic

50.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	44.2 m	34.0 km

45.0	15.0	-32.3	30.0
90.0	15.0	-24.1	30.0
135.0	15.0	49.9	35.6
180.0	15.0	49.2	35.4
225.0	15.0	49.4	35.4
270.0	15.0	50.0	35.6
315.0	15.0	50.0	35.6

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 30 m

Proposal 25.32 dBu contour does not cross Canadian border
Distance to Canadian border: 215.3 km

Distance to Mexican border: 1625.6 km

Conditions at FCC monitoring station: Ferndale WA
Bearing: 20.3 degrees Distance: 313.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 107.6 degrees Distance: 1663.5 km

Study cell size: 1.00 km
Profile point spacing: 0.10 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BLANK0000034249 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KOMO-TV	D30	DT	CP	SEATTLE, WA	BLANK0000034249	
Undesireds:	K38NC-D	D30	LD	APP	ASTORIA, OR	K38NC_Ch30_Omni_Hgt	194.4 km
	KPDX	D30	DT	LIC	VANCOUVER, WA	BLCDT20090612ADJ	236.5
	KUNW-CD	D30	DC	LIC	YAKIMA, WA	BLDTL20090923ACQ	185.5
	KONG	D31	DT	LIC	EVERETT, WA	BLANK0000001601	0.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
26364.4	4,138,170	24579.2	4,087,596	24520.7	4,085,279	24516.6	4,085,279	0.02	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
K38NC-D D30 LD APP	5.1	0			4.0	0
KPDX D30 DT LIC	57.5	2,317	57.5	2,317	56.5	2,317
KUNW-CD D30 DC LIC	1.0	0	1.0	0	1.0	0

Interference to BLANK0000034249 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KOMO-TV	D30	DT	CP	SEATTLE, WA	BLANK0000034249	
Undesireds:	K38NC-D	D30	LD	APP	ASTORIA, OR	K38NC_Ch30_Omni_Hgt	194.4 km
	KPDX	D30	DT	LIC	VANCOUVER, WA	BLCDT20090612ADJ	236.5
	KUNW-CD	D30	DC	LIC	YAKIMA, WA	BLDTL20090923ACQ	185.5
	KONG	D31	DT	APP	EVERETT, WA	BPCDT20080617AEE	0.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
26364.4	4,138,170	24579.2	4,087,596	24518.6	4,085,279	24514.6	4,085,279	0.02	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
K38NC-D D30 LD APP	5.1	0			4.0	0
KPDX D30 DT LIC	57.5	2,317	57.5	2,317	56.5	2,317
KUNW-CD D30 DC LIC	1.0	0	1.0	0	1.0	0
KONG D31 DT APP	2.0	0	2.0	0	2.0	0

Interference to BLCDT20090612ADJ LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KPDX	D30	DT	LIC	VANCOUVER, WA	BLCDT20090612ADJ	
Undesireds:	K38NC-D	D30	LD	APP	ASTORIA, OR	K38NC_Ch30_Omni_Hgt	133.7 km
	KEPB-TV	D29	DT	LIC	EUGENE, OR	BLEDT20050127AHY	171.4
	KOMO-TV	D30	DT	CP	SEATTLE, WA	BLANK0000034249	236.5
	KLSR-TV	D31	DT	LIC	EUGENE, OR	BLCDT20070104ADQ	171.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
41455.7	2,969,746	33269.4	2,845,790	32902.7	2,807,630	32872.6	2,807,630	0.09	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
K38NC-D D30 LD APP	36.2	0			30.2	0
KEPB-TV D29 DT LIC	191.0	34,744	12.0	2,032	12.0	2,032
KOMO-TV D30 DT CP	172.6	3,366	172.6	3,366	166.6	3,366
KLSR-TV D31 DT LIC	182.0	32,762	3.0	50	3.0	50

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K38NC-D	D30	LD	APP	ASTORIA, OR	K38NC_Ch30_Omni_Hgt	
Undesireds:	KOMO-TV	D30	DT	CP	SEATTLE, WA	BLANK0000034249	194.4 km
	KPDX	D30	DT	LIC	VANCOUVER, WA	BLCDT20090612ADJ	133.7

Service area		Terrain-limited		IX-free		Percent IX	
3633.1	34,585	3264.7	33,118	3244.4	33,118	0.62	0.00

Undesired	Total IX		Unique IX		Prcnt Unique IX	
KOMO-TV D30 DT CP	20.3	0	19.3	0	0.59	0.00
KPDX D30 DT LIC	1.0	0	0.0	0	0.00	0.00