

INTERFERENCE ANALYSIS FOR PROPOSED K50GG-D, SALEM, OR, CHANNEL 19, DISPLACEMENT FACILITY

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: k50gg19p3, Model: Longley-Rice

Study build station data: LMS TV 2018-05-01

Proposal: K50GG19P3 D19 LD APP SALEM, OR
File number: k50gg19p3
Facility ID: 35463
Station data: User record
Record ID: 2723
Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

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	KOHD	D18	DT	LIC	BEND, OR	BLANK0000002204	175.2 km
No	K42HK-D	D18	LD	APP	COTTAGE GROVE, OR	BLANK00000029344	134.4
No	KCKW-LD	D18	LD	CP	EUGENE, OR	BNPDTL20101001AAH	109.1
Yes	K18EL-D	D18	LD	LIC	NEWBERG/TIGARD, OR	BLDTT20140521ACS	42.8
Yes	K18FR-D	D18	LD	LIC	NEWPORT, OR	BLDTT20100721FZO	75.8
Yes	K18LB-D	D18	LD	CP	PHILOMATH, OR	BNPDTL20100514AIQ	54.3
No	KTVC	D18	DT	APP	ROSEBURG, OR	BLANK00000036020	199.0
No	KTVC	D18	DT	LIC	ROSEBURG, OR	BLCDT20060721AAR	194.9
No	K18HH-D	D18	LD	LIC	THE DALLES, OR	BLDTT20120621ABT	177.7
No	K39EO-D	D19	LD	APP	CRESCENT CITY, CA	BLANK00000029580	358.2
No	K19GL-D	D19	LD	LIC	YREKA, CA	BLDTT20080826AAQ	377.4
Yes	K19GH-D	D19	DC	LIC	EUGENE, ETC., OR	BLDTA20091211AEO	97.2
No	K19HS-D	D19	LD	LIC	GRANTS PASS, OR	BLDTT20080714ACF	277.7
No	K19HS-D	D19	LD	CP	GRANTS PASS, OR	BPDTT20111107ALN	286.2
No	K48DZ-D	D19	LD	APP	HERMISTON, OR	BLANK00000028989	319.5
No	K19EC-D	D19	LD	LIC	MAPLETON, OR	BLDTL20100223ACV	109.1
No	KFBI-LD	D19	LD	APP	MEDFORD, OR	BLANK00000029258	300.3
No	K19HH-D	D19	LD	LIC	MIDLAND, ETC., OR	BLDTT20131101AGB	343.0
Yes	K19EI-D	D19	LD	LIC	PACIFIC C/CLOVERDALE, OR	BLDTT20091124AGX	54.3
Yes	KPIC	D19	DT	LIC	ROSEBURG, OR	BLCDT20120423ABP	195.0
No	KBCB	D19	DT	APP	BELLINGHAM, WA	BLANK00000035650	411.3
No	KBCB	D19	DT	LIC	BELLINGHAM, WA	BLCDT20040128AKD	411.3
Yes	KCKA	D19	DT	APP	CENTRALIA, WA	BLANK00000035737	174.6
Yes	KCKA	D19	DT	LIC	CENTRALIA, WA	BLEDT20101217ABA	174.6
No	KUMN-LP	D19-	LD	APP	MOSES LAKE, ETC., WA	BLANK00000034017	343.4
No	K19JX-D	D19	LD	LIC	YAKIMA, WA	BLDTL20141016ADC	266.6
Yes	K20DD-D	D20	LD	LIC	ALBANY, ETC., OR	BLDTL20120524AIN	55.3
No	KQRE-LD	D20	LD	LIC	BEND, OR	BLDTL20120523ACJ	183.2
No	K20IR-D	D20	LD	LIC	COTTAGE GROVE, OR	BLDTT20090303ACH	134.4
No	K20EH-D	D20	LD	LIC	HOOD RIVER, OR	BLDTL20130311AAW	148.3
Yes	KOXI-CD	D20	DC	LIC	PORTLAND, OR	BLANK0000001497	67.3
No	K20LL-D	D20	LD	LIC	REEDSPORT, OR	BLDTT20120613AAT	159.4
No	K20HT-D	D20	LD	LIC	ROCKAWAY BEACH, OR	BLDTT20120514ABZ	104.9
No	K26DB-D	N26-	TX	LIC	ASTORIA, OR	BLTT19911016IG	156.1

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D19

Mask: Stringent

Latitude: 44 59 4.40 N (NAD83)

Longitude: 123 8 34.30 W

Height AMSL: 388.0 m

HAAT: 0.0 m

Peak ERP: 2.00 kW

Antenna: ERI-AL8 120.0 deg

Elev Pattn: Generic

Elec Tilt: 1.75

INTERFERENCE ANALYSIS FOR PROPOSED K50GG-D, SALEM, OR, CHANNEL 19, DISPLACEMENT FACILITY

49.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.817 kW	177.3 m	35.5 km
45.0	1.14	348.9	46.1
90.0	1.82	329.7	47.8
135.0	1.95	283.3	45.7
180.0	1.37	315.9	45.5
225.0	0.853	313.3	42.7
270.0	0.919	312.7	43.1
315.0	0.979	327.9	44.2

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 301 m

Distance to Canadian border: 361.4 km

Distance to Mexican border: 1461.9 km

Conditions at FCC monitoring station: Ferndale WA
Bearing: 5.6 degrees Distance: 443.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 103.9 degrees Distance: 1555.7 km

No land mobile station failures found

Study cell size: 1.00 km

Profile point spacing: 0.10 km (Higher resolution terrain profile point spacing is requested.)

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

Interference to BLDTT20140521ACS LIC scenario 1

Desired:	Call K18EL-D	Chan D18	Svc LD	Status LIC	City, State NEWBERG/TIGARD, OR	File Number BLDTT20140521ACS	Distance		
Undesireds:	K50GG19P3	D19	LD	APP	SALEM, OR	k50gg19p3	42.8 km		
	K17HA-D	D17	LD	LIC	ASTORIA, OR	BLDTT20120713ADN	125.2		
	KMTR	D17	DT	LIC	EUGENE, OR	BLCDT20030618AAY	137.7		
	K17GV-D	D17	LD	LIC	Ranier, OR	BLANK0000049611	90.5		
	KDOV-LD	D18	LD	CP	MEDFORD, OR	BLANK0000033864	340.3		
	K18FR-D	D18	LD	LIC	NEWPORT, OR	BLDTT20100721FZO	106.6		
	KTVC	D18	DT	APP	ROSEBURG, OR	BLANK0000036020	241.2		
	KEPR-TV	D18	DT	APP	PASCO, WA	BLANK0000035749	305.9		
	KCKA	D19	DT	APP	CENTRALIA, WA	BLANK0000035737	133.5		
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Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
6248.1	1,868,311	5363.8	1,398,819	5362.8	1,398,819	5315.2	1,395,750	0.89	0.22
Undesired				Total IX	Unique IX, before		Unique IX, after		
K50GG19P3	D19	LD	APP	47.6	3,069	47.6	3,069		
K18FR-D	D18	LD	LIC	1.0	0	1.0	0		

Interference to BLDTT20100721FZO LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K18FR-D	D18	LD	LIC	NEWPORT, OR	BLDTT20100721FZO	
Undesireds:	K50GG19P3	D19	LD	APP	SALEM, OR	k50gg19p3	75.8 km
	KMTR	D17	DT	LIC	EUGENE, OR	BLCDT20030618AAY	109.6
	KDOV-LD	D18	LD	CP	MEDFORD, OR	BLANK0000033864	292.6
	K18EL-D	D18	LD	LIC	NEWBERG/TIGARD, OR	BLDTT20140521ACS	106.6
	KTVC	D18	DT	APP	ROSEBURG, OR	BLANK0000036020	180.8

INTERFERENCE ANALYSIS FOR PROPOSED K50GG-D, SALEM, OR, CHANNEL 19, DISPLACEMENT FACILITY

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
5838.1 48,031	5518.0 45,572	5514.9 45,572	5514.9 45,572	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
K50GG19P3 D19 LD APP	1.0 0		0.0 0
K18EL-D D18 LD LIC	3.0 0	3.0 0	2.0 0

Interference to BNPDTL20100514AIQ CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K18LB-D	D18	LD	CP	PHILOMATH, OR	BNPDTL20100514AIQ	
Undesireds:	K50GG19P3	D19	LD	APP	SALEM, OR	k50gg19p3	54.3 km
	KMTR	D17	DT	LIC	EUGENE, OR	BLCDT20030618AAY	54.8
	KCKW-LD	D18	LD	CP	EUGENE, OR	BNPDTL20101001AAH	61.9
	KDOV-LD	D18	LD	CP	MEDFORD, OR	BLANK0000033864	252.9
	K18EL-D	D18	LD	LIC	NEWBERG/TIGARD, OR	BLDTT20140521ACS	97.1
	K18FR-D	D18	LD	LIC	NEWPORT, OR	BLDTT20100721FZO	58.7
	KTVC	D18	DT	APP	ROSEBURG, OR	BLANK0000036020	147.2
	K19GH-D	D19	DC	LIC	EUGENE, ETC., OR	BLDTA20091211AEO	54.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
1915.5 167,949	1854.5 161,066	1826.5 159,288	1824.5 159,288	0.11 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
K50GG19P3 D19 LD APP	2.0 0		2.0 0
KMTR D17 DT LIC	1.0 10	0.0 0	0.0 0
KCKW-LD D18 LD CP	22.0 1,450	18.0 1,432	18.0 1,432
K18EL-D D18 LD LIC	10.0 346	5.0 328	5.0 328
K18FR-D D18 LD LIC	1.0 0	0.0 0	0.0 0
K19GH-D D19 DC LIC	1.0 10	0.0 0	0.0 0

Interference to BLDTA20091211AEO LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K19GH-D	D19	DC	LIC	EUGENE, ETC., OR	BLDTA20091211AEO	
Undesireds:	K50GG19P3	D19	LD	APP	SALEM, OR	k50gg19p3	97.2 km
	KTVC	D18	DT	APP	ROSEBURG, OR	BLANK0000036020	106.1
	KPIC	D19	DT	LIC	ROSEBURG, OR	BLCDT20120423ABP	101.2
	KCKA	D19	DT	APP	CENTRALIA, WA	BLANK0000035737	271.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
6806.0 341,082	6181.9 333,610	6166.7 333,610	6151.5 333,285	0.25 0.10

Undesired	Total IX	Unique IX, before	Unique IX, after
K50GG19P3 D19 LD APP	16.1 325		15.1 325
KPIC D19 DT LIC	15.2 0	15.2 0	14.2 0

Interference to BLDTT20091124AGX LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K19EI-D	D19	LD	LIC	PACIFIC C/CLOVERDALE, OR	BLDTT20091124AGX	
Undesireds:	K50GG19P3	D19	LD	APP	SALEM, OR	k50gg19p3	54.3 km
	K18FR-D	D18	LD	LIC	NEWPORT, OR	BLDTT20100721FZO	55.8
	K19GH-D	D19	DC	LIC	EUGENE, ETC., OR	BLDTA20091211AEO	135.8
	K19HS-D	D19	LD	LIC	GRANTS PASS, OR	BLDTT20080714ACF	304.9
	KCKA	D19	DT	APP	CENTRALIA, WA	BLANK0000035737	158.5
	K20HT-D	D20	LD	LIC	ROCKAWAY BEACH, OR	BLDTT20120514ABZ	60.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
4745.2 38,798	4178.2 35,355	4142.8 34,927	4119.5 34,868	0.56 0.17

Undesired	Total IX	Unique IX, before	Unique IX, after
K50GG19P3 D19 LD APP	23.3 59		23.3 59
K18FR-D D18 LD LIC	21.3 0	18.2 0	18.2 0
K19GH-D D19 DC LIC	1.0 0	1.0 0	1.0 0

INTERFERENCE ANALYSIS FOR PROPOSED K50GG-D, SALEM, OR, CHANNEL 19, DISPLACEMENT FACILITY

KCKA D19 DT APP	5.1	428	2.0	428	2.0	428
K20HT-D D20 LD LIC	11.1	0	11.1	0	11.1	0

Interference to BLCDDT20120423ABP LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPIC	D19	DT	LIC	ROSEBURG, OR	BLCDDT20120423ABP	
Undesireds:	K50GG19P3	D19	LD	APP	SALEM, OR	k50gg19p3	195.0 km
	KTVC	D18	DT	APP	ROSEBURG, OR	BLANK0000036020	6.1
	K19GH-D	D19	DC	LIC	EUGENE, ETC., OR	BLDTA20091211AEO	101.2
	KCKA	D19	DT	APP	CENTRALIA, WA	BLANK0000035737	369.5
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	13942.1	155,847	12263.6	114,875	12072.3	114,447	0.01 0.00
Undesired			Total IX		Unique IX, before	Unique IX, after	
K50GG19P3 D19 LD APP		6.1	0		1.0	0	
KTVC D18 DT APP		28.1	311		24.0	311	
K19GH-D D19 DC LIC		167.3	117		163.2	117	

Interference to BLANK0000035737 APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KCKA	D19	DT	APP	CENTRALIA, WA	BLANK0000035737	
Undesireds:	K50GG19P3	D19	LD	APP	SALEM, OR	k50gg19p3	174.6 km
	KBCB	D19	DT	APP	BELLINGHAM, WA	BLANK0000035650	236.7
	KOXI-CD	D20	DC	LIC	PORTLAND, OR	BLANK0000001497	117.2
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	25636.4	1,201,666	20759.3	1,011,043	20191.3	843,507	0.12 0.00
Undesired			Total IX		Unique IX, before	Unique IX, after	
K50GG19P3 D19 LD APP		31.4	336		23.3	0	
KBCB D19 DT APP		502.7	162,381		502.7	162,381	
KOXI-CD D20 DC LIC		65.3	5,155		57.2	4,819	

Interference to BLEDT20101217ABA LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KCKA	D19	DT	LIC	CENTRALIA, WA	BLEDT20101217ABA	
Undesireds:	K50GG19P3	D19	LD	APP	SALEM, OR	k50gg19p3	174.6 km
	KBCB	D19	DT	APP	BELLINGHAM, WA	BLANK0000035650	236.7
	KOXI-CD	D20	DC	LIC	PORTLAND, OR	BLANK0000001497	117.2
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	23068.9	951,666	18664.5	783,176	18154.0	655,621	0.08 0.00
Undesired			Total IX		Unique IX, before	Unique IX, after	
K50GG19P3 D19 LD APP		19.2	123		15.2	0	
KBCB D19 DT APP		466.3	126,180		466.3	126,180	
KOXI-CD D20 DC LIC		44.2	1,375		40.1	1,252	

Interference to BLDTL20120524AIN LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K20DD-D	D20	LD	LIC	ALBANY, ETC., OR	BLDTL20120524AIN	
Undesireds:	K50GG19P3	D19	LD	APP	SALEM, OR	k50gg19p3	55.3 km
	K19GH-D	D19	DC	LIC	EUGENE, ETC., OR	BLDTA20091211AEO	43.4
	K20IR-D	D20	LD	LIC	COTTAGE GROVE, OR	BLDTT20090303ACH	81.1
	KOXI-CD	D20	DC	LIC	PORTLAND, OR	BLANK0000001497	114.3

INTERFERENCE ANALYSIS FOR PROPOSED K50GG-D, SALEM, OR, CHANNEL 19, DISPLACEMENT FACILITY

K21FS-D	D21	LD	LIC	EUGENE, OR	BLDTT20101029ACP	34.2			
Service area	Terrain-limited			IX-free, before	IX-free, after	Percent	New IX		
5593.1	373,160	5111.6	310,504	5003.6	289,865	4993.5	289,803	0.20	0.02
Undesired			Total IX	Unique IX, before	Unique IX, after				
K50GG19P3	D19	LD APP	32.5	18,079		10.1	62		
K19GH-D	D19	DC LIC	17.1	524	12.1	312	12.1	312	
K20IR-D	D20	LD LIC	2.0	140	0.0	0	0.0	0	
KOXI-CD	D20	DC LIC	88.9	20,234	86.9	20,094	64.6	2,077	
K21FS-D	D21	LD LIC	8.0	232	4.0	21	4.0	21	

Interference to BLANK0000001497 LIC scenario 1

Desired:	Call KOXI-CD	Chan D20	Svc DC	Status LIC	City, State PORTLAND, OR	File Number BLANK0000001497	Distance		
Undesireds:	K50GG19P3	D19	LD	APP	SALEM, OR	k50gg19p3	67.3 km		
	KCKA	D19	DT	APP	CENTRALIA, WA	BLANK0000035737	117.2		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
11430.3	2,280,912	10215.7	2,198,291	10215.7	2,198,291	10148.9	2,188,192	0.65	0.46
Undesired				Total IX		Unique IX, before		Unique IX, after	
K50GG19P3	D19	LD	APP	66.8	10,099	66.8	10,099		

Interference to proposal scenario 1
**MX: 2.59% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K50GG19P3	D19	LD	APP	SALEM, OR	k50gg19p3	
Undesireds:	K18EL-D	D18	LD	LIC	NEWBERG/TIGARD, OR	BLDTT20140521ACS	42.8 km
	K18LB-D	D18	LD	CP	PHILOMATH, OR	BNPDTL20100514AIQ	54.3
	K19GH-D	D19	DC	LIC	EUGENE, ETC., OR	BLDTA20091211AEO	97.2
	K19HS-D	D19	LD	LIC	GRANTS PASS, OR	BLDTT20080714ACF	277.7
	K19EI-D	D19	LD	LIC	PACIFIC C/CLOVERDALE, OR	BLDTT20091124AGX	54.3
	KCKA	D19	DT	APP	CENTRALIA, WA	BLANK0000035737	174.6
	K20DD-D	D20	LD	LIC	ALBANY, ETC., OR	BLDTL20120524AIN	55.3
Service area		Terrain-limited		IX-free		Percent IX	
6109.6	584,983	5476.7	499,011	5307.1	486,080	3.10	2.59
Undesired		Total IX		Unique IX		Prcnt Unique IX	
K18EL-D	D18 LD LIC	19.1	905	15.1	757	0.28	0.15
K18LB-D	D18 LD CP	34.0	7,396	0.0	0	0.00	0.00
K19GH-D	D19 DC LIC	47.0	7,365	2.0	0	0.04	0.00
K19EI-D	D19 LD LIC	57.1	1,463	16.2	271	0.30	0.05
KCKA	D19 DT APP	26.0	3,692	0.0	0	0.00	0.00
K20DD-D	D20 LD LIC	133.3	11,663	45.4	3,340	0.83	0.67

Interference to proposal scenario 2
2.59% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K50GG19P3	D19	LD	APP	SALEM, OR	k50gg19p3	
Undesireds:	K18EL-D	D18	LD	LIC	NEWBERG/TIGARD, OR	BLDTT20140521ACS	42.8 km
	K18LB-D	D18	LD	CP	PHILOMATH, OR	BNPDTL20100514AIQ	54.3
	K19GH-D	D19	DC	LIC	EUGENE, ETC., OR	BLDTA20091211AEO	97.2
	K19HS-D	D19	LD	LIC	GRANTS PASS, OR	BLDTT20080714ACF	277.7
	K19EI-D	D19	LD	LIC	PACIFIC C/CLOVERDALE, OR	BLDTT20091124AGX	54.3
	KCKA	D19	DT	LIC	CENTRALIA, WA	BLDTT20101217ABA	174.6
	K20DD-D	D20	LD	LIC	ALBANY, ETC., OR	BLDTL20120524AIN	55.3
Service area		Terrain-limited		IX-free		Percent IX	
6109.6	584,983	5476.7	499,011	5307.1	486,080	3.10	2.59
Undesired		Total IX		Unique IX		Prcnt Unique IX	

INTERFERENCE ANALYSIS FOR PROPOSED K50GG-D, SALEM, OR, CHANNEL 19, DISPLACEMENT FACILITY

K18EL-D D18 LD LIC	19.1	905	15.1	757	0.28	0.15
K18LB-D D18 LD CP	34.0	7,396	0.0	0	0.00	0.00
K19GH-D D19 DC LIC	47.0	7,365	2.0	0	0.04	0.00
K19EI-D D19 LD LIC	57.1	1,463	16.2	271	0.30	0.05
KCKA D19 DT LIC	14.0	3,335	0.0	0	0.00	0.00
K20DD-D D20 LD LIC	133.3	11,663	47.4	3,340	0.87	0.67
