

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: K20CN-D 20 4K DA lxp2, Model: Longley-Rice PLEASE USE 1 KM CELL & 0.2 KM TERRAIN
Start: 2021.04.20 20:12:41 INCREMENT

Study created: 2021.04.20 20:12:41

Study build station data: LMS TV 2021-04-20

Proposal: K20CN D20 LD APP FORTUNA, RIO DELL, CA
File number: K20CN-D 20 4K DA
Facility ID: 8247
Station data: User record
Record ID: 1388
Country: U.S.

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

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
No	K39EO-D	D19	LD	CP	CRESCENT CITY, CA	BLANK0000029580	158.2 km
Yes	K19IC-D	D19	LD	CP	EUREKA, CA	BLANK0000010785	36.2
No	K19IC-D	D19	LD	LIC	EUREKA, CA	BLDTL20100419ACN	37.1
No	K19IV-D	D19	LD	CP	REDDING, CA	BNPDTL20090825ASG	145.4
No	K51AQ-D	D19	LD	CP	UKIAH, CA	BLANK0000081270	167.7
No	K20DE-D	D20	LD	LIC	ALTURAS/LIKELY, CA	BLDTT20080826AAS	307.3
No	K20OO-D	D20	LD	CP	CERES, CA	BLANK0000072037	427.7
Yes	KNVN	D20	DT	LIC	CHICO, CA	BLANK0000121428	169.9
No	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000073020	322.9
No	K20JX-D	D20	DC	LIC	SACRAMENTO, CA	BLDTA20101006AAS	295.2
No	KDTV-DT	D20	DT	LIC	SAN FRANCISCO, CA	BLANK0000113449	376.7
No	K47AL	D20	LD	CP	UKIAH, CA	BLANK0000081267	167.7
No	KNSN-TV	D20	DT	LIC	RENO, NV	BLANK0000001059	376.5
No	KNSN-TV	D20	DT	CP	RENO, NV	BLANK0000035790	376.5
No	K20KV-D	D20	LD	CP	MEDFORD, OR	BLANK0000068882	241.0
Yes	DK20BI-D	D20	LD	APP	NESIKA BEACH, OR	BLDTT20120607ADI	221.0
No	K20LL-D	D20	LD	LIC	REEDSPORT, OR	BLDTT20120613AAT	367.1
No	K38LQ-D	D20	LD	LIC	ROSEBURG, OR	BLANK0000058770	314.5
No	KRVU-LD	D21	LD	LIC	REDDING, CA	BLDTL20091019AAB	134.6
Yes	K21OO-D	D21	LD	LIC	SOUTH EUREKA, LOLETA, CA	BLANK0000068040	34.5
No	K21CD-D	D21	LD	LIC	UKIAH, CA	BLDTT20120201ALL	167.7

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: 40 25 11.40 N (NAD83)
Longitude: 124 5 4.10 W
Height AMSL: 991.0 m
HAAT: 0.0 m
Peak ERP: 4.00 kW
Antenna: SCALA 4DR 3HC 60 degs 0.0 deg
Elev Pattn: Generic

49.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	3.82 kW	848.2 m	65.9 km
45.0	3.32	770.6	63.6
90.0	3.76	801.2	65.0
135.0	3.61	565.9	59.8
180.0	2.02	392.6	51.0

225.0	0.170	476.2	38.6
270.0	0.449	456.9	43.9
315.0	3.05	724.4	62.2

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 629 m

Distance to Canadian border: 868.6 km

Distance to Mexican border: 1051.5 km

Conditions at FCC monitoring station: Livermore CA
Bearing: 145.4 degrees Distance: 360.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 84.9 degrees Distance: 1593.9 km

No land mobile station failures found

Study cell size: 1.00 km
Profile point spacing: 0.20 km

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

Interference to BLANK0000010785 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	K19IC-D	D19	LD	CP	EUREKA, CA	BLANK0000010785			
Undesireds:	K20CN	N20z	TX	LIC	FORTUNA, RIO DELL, CA	BLTTL19891012JL	36.2 km		
	K20CN	D20	LD	APP	FORTUNA, RIO DELL, CA	K20CN-D 20 4K DA	36.2		
	K19FY-D	D19	LD	LIC	CHICO, CA	BLANK00000122016	215.6		
	K39EO-D	D19	LD	CP	CRESCENT CITY, CA	BLANK0000029580	124.6		
	K19HS-D	D19	LD	LIC	GRANTS PASS, OR	BLDTT20080714ACF	202.7		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
4072.5		117,857		3674.6		96,716	0.92 0.48		
				3673.6		96,716			
				3639.8		96,256			
Undesired				Total IX	Unique IX, before	Unique IX, after			
K20CN N20z TX LIC				0.0	0	0			
K20CN D20 LD APP				33.9	460	33.9 460			
K39EO-D D19 LD CP				1.0	0	1.0 0			

Interference to BLANK00000121428 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	KNVN	D20	DT	LIC	CHICO, CA	BLANK00000121428			
Undesireds:	K20CN	N20z	TX	LIC	FORTUNA, RIO DELL, CA	BLTTL19891012JL	169.9 km		
	K20CN	D20	LD	APP	FORTUNA, RIO DELL, CA	K20CN-D 20 4K DA	169.9		
	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000073020	198.2		
	KDTV-DT	D20	DT	LIC	SAN FRANCISCO, CA	BLANK00000113449	307.3		
	KNSN-TV	D20	DT	LIC	RENO, NV	BLANK0000001059	209.2		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
31525.9		495,781		27919.9		455,405	0.00 0.00		
				27882.9		455,405			
				27881.9		455,405			
Undesired				Total IX	Unique IX, before	Unique IX, after			
K20CN N20z TX LIC				9.1	0	6.1 0			
K20CN D20 LD APP				10.0	0	7.0 0			
K20JX-D D20 DC CP				21.9	0	14.9 0			
KDTV-DT D20 DT LIC				12.1	49	8.0 49			
KNSN-TV D20 DT LIC				1.0	0	1.0 0			

Interference to BLANK0000121428 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KNVN	D20	DT	LIC	CHICO, CA	BLANK0000121428	
Undesireds:	K20CN	N20z	TX	LIC	FORTUNA, RIO DELL, CA	BLTTL19891012JL	169.9 km
	K20CN	D20	LD	APP	FORTUNA, RIO DELL, CA	K20CN-D 20 4K DA	169.9
	K20JX-D	D20	DC	LIC	SACRAMENTO, CA	BLDTA20101006AAS	171.7
	KDTV-DT	D20	DT	LIC	SAN FRANCISCO, CA	BLANK0000113449	307.3
	KNSN-TV	D20	DT	LIC	RENO, NV	BLANK0000001059	209.2
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
31525.9	495,781	27919.9		455,454	27893.8	455,383	27892.8 455,383 0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
K20CN N20z TX LIC		9.1		0	8.0	0	
K20CN D20 LD APP		10.0		0		9.0	0
K20JX-D D20 DC LIC		10.0		22	4.0	22	4.0 22
KDTV-DT D20 DT LIC		12.1		49	7.0	49	7.0 49
KNSN-TV D20 DT LIC		1.0		0	1.0	0	1.0 0

Interference to BLANK0000121428 LIC scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KNVN	D20	DT	LIC	CHICO, CA	BLANK0000121428	
Undesireds:	K20CN	N20z	TX	LIC	FORTUNA, RIO DELL, CA	BLTTL19891012JL	169.9 km
	K20CN	D20	LD	APP	FORTUNA, RIO DELL, CA	K20CN-D 20 4K DA	169.9
	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000073020	198.2
	KDTV-DT	D20	DT	LIC	SAN FRANCISCO, CA	BLANK0000113449	307.3
	KNSN-TV	D20	DT	CP	RENO, NV	BLANK0000035790	209.2
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
31525.9	495,781	27919.9		455,454	27882.9	455,405	27881.9 455,405 0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
K20CN N20z TX LIC		9.1		0	6.1	0	
K20CN D20 LD APP		10.0		0		7.0	0
K20JX-D D20 DC CP		21.9		0	14.9	0	14.9 0
KDTV-DT D20 DT LIC		12.1		49	8.0	49	8.0 49
KNSN-TV D20 DT CP		1.0		0	1.0	0	1.0 0

Interference to BLANK0000121428 LIC scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KNVN	D20	DT	LIC	CHICO, CA	BLANK0000121428	
Undesireds:	K20CN	N20z	TX	LIC	FORTUNA, RIO DELL, CA	BLTTL19891012JL	169.9 km
	K20CN	D20	LD	APP	FORTUNA, RIO DELL, CA	K20CN-D 20 4K DA	169.9
	K20JX-D	D20	DC	LIC	SACRAMENTO, CA	BLDTA20101006AAS	171.7
	KDTV-DT	D20	DT	LIC	SAN FRANCISCO, CA	BLANK0000113449	307.3
	KNSN-TV	D20	DT	CP	RENO, NV	BLANK0000035790	209.2
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
31525.9	495,781	27919.9		455,454	27893.8	455,383	27892.8 455,383 0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
K20CN N20z TX LIC		9.1		0	8.0	0	
K20CN D20 LD APP		10.0		0		9.0	0
K20JX-D D20 DC LIC		10.0		22	4.0	22	4.0 22
KDTV-DT D20 DT LIC		12.1		49	7.0	49	7.0 49
KNSN-TV D20 DT CP		1.0		0	1.0	0	1.0 0

Interference to BLDTT20120607ADI APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	DK20BI-D	D20	LD	APP	NESIKA BEACH, OR	BLDTT20120607ADI	

Undesireds:	K20CN	N20z	TX	LIC	FORTUNA, RIO DELL, CA	BLTTL19891012JL	221.0 km
	K20CN	D20	LD	APP	FORTUNA, RIO DELL, CA	K20CN-D 20 4K DA	221.0
	K19HS-D	D19	LD	LIC	GRANTS PASS, OR	BLDTT20080714ACF	87.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
2277.8 7,406	2178.0 7,238	2176.9 7,238	2174.9 7,225	0.09 0.18

Undesired	Total IX	Unique IX, before	Unique IX, after
K20CN N20z TX LIC	1.0 0	1.0 0	
K20CN D20 LD APP	3.0 13		3.0 13

Interference to BLANK0000068040 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K2100-D	D21	LD	LIC	SOUTH EUREKA, LOLETA, CA	BLANK0000068040	
Undesireds:	K20CN	N20z	TX	LIC	FORTUNA, RIO DELL, CA	BLTTL19891012JL	34.5 km
	K20CN	D20	LD	APP	FORTUNA, RIO DELL, CA	K20CN-D 20 4K DA	34.5
	K21KB-D	D21	LD	LIC	BROOKINGS, OR	BLDTL20120612AAW	156.5
	KAUF-TV	D22	DT	LIC	ARCATA, CA	BLCDT20071012ASQ	19.5
Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX			
733.0 38,527	668.3 27,357	640.4 27,312	611.6 27,162	4.50 0.55			

Undesired	Total IX	Unique IX, before	Unique IX, after
K20CN N20z TX LIC	0.0 0	0.0 0	
K20CN D20 LD APP	39.8 195		28.8 150
K21KB-D D21 LD LIC	1.0 0	0.0 0	0.0 0
KAUF-TV D22 DT LIC	27.9 45	26.9 45	15.9 0

Interference to proposal scenario 1
9.46% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K20CN	D20	LD	APP	FORTUNA, RIO DELL, CA	K20CN-D 20 4K DA	
Undesireds:	K19IC-D	D19	LD	CP	EUREKA, CA	BLANK0000010785	36.2 km
	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000073020	322.9
Service area	Terrain-limited	IX-free	Percent IX				
10163.3 126,857	8248.7 112,611	8194.1 101,963	0.66 9.46				
Undesired	Total IX	Unique IX	Prcnt Unique IX				
K19IC-D D19 LD CP	54.6 10,648	54.6 10,648	0.66 9.46				

Interference to proposal scenario 2
6.11% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K20CN	D20	LD	APP	FORTUNA, RIO DELL, CA	K20CN-D 20 4K DA	
Undesireds:	K19IC-D	D19	LD	LIC	EUREKA, CA	BLDTL20100419ACN	37.1 km
	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000073020	322.9
Service area	Terrain-limited	IX-free	Percent IX				
10163.3 126,857	8248.7 112,611	8218.0 105,731	0.37 6.11				
Undesired	Total IX	Unique IX	Prcnt Unique IX				
K19IC-D D19 LD LIC	30.8 6,880	30.8 6,880	0.37 6.11				