

tvstudy v2.2.3 (Dxtpx3)
Database: localhost, Study: KRXI-23 C170 400KW 171025, Model: Longley-Rice
Start: 2017.10.25 10:30:47

Study created: 2017.10.25 10:30:32

Study build station data: LMS TV 2017-10-01 (38)

Proposal: KRXI-TV D23 DT APP RENO, NV
File number: KRXI-23 C170 400KW 171025
Facility ID: 48360
Station data: User record
Record ID: 2236
Country: U.S.
Zone: II

Search options:
Non-U.S. records included
Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
KQCA	D23	DT	CP	STOCKTON, CA	BLANK0000024621	199.9 km

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D23
Latitude: 39 35 23.00 N (NAD83)
Longitude: 119 55 41.00 W
Height AMSL: 2559.0 m
HAAT: 854.0 m
Peak ERP: 400 kW
Antenna: DIE C170 Rot 20 degs 0.0 deg
Elev Pattn: Generic
Elec Tilt: 1.5

39.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	328 kW	945.8 m	126.7 km
45.0	331	1021.8	129.4
90.0	400	987.9	130.2
135.0	176	1044.8	123.4
180.0	17.1	760.9	93.1
225.0	16.6	674.2	90.1
270.0	215	503.5	103.1
315.0	397	891.5	126.9

ERP exceeds maximum
ERP: 400 kW ERP maximum: 178 kW

**Proposal service area extends beyond baseline plus 1.0%
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 1002.0 km

Distance to Mexican border: 808.8 km

Conditions at FCC monitoring station: Livermore CA
Bearing: 218.0 degrees Distance: 260.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 82.4 degrees Distance: 1252.0 km

Study cell size: 2.00 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 BLANK0000024621 CP, scenario 1

Desired:	Call KQCA	Chan D23	Svc DT	Status CP	City, State STOCKTON, CA	File Number BLANK0000024621	Distance					
Undesireds:	KRXI-TV	D23	DT	BL	RENO, NV	DTVBL48360	199.9 km					
	KRXI-TV	D23	DT	APP	RENO, NV	KRXI-23 C170 400KW 171	199.9					
	KAXT-CD	D22	DC	CP	SAN FRANCISCO, SAN JO, CA	BLANK0000027887	91.5					
	KTFF-DT	D23	DT	CP	PORTERVILLE, CA	BLANK0000025094	321.5					
	KRDT-CD	D23	DC	LIC	REDDING, CA	BLDTA20110620AEA	279.8					
	KMAX-TV	D24	DT	CP	SACRAMENTO, CA	BLANK0000026890	2.9					
Service area		Terrain-limited			IX-free, before		IX-free, after		Percent New IX			
41037.5	10,077,891	35328.7	6,276,197		34384.0	6,205,395		34372.1	6,194,538		0.03	0.17
Undesired				Total IX	Unique IX, before		Unique IX, after					
KRXI-TV	D23	DT	BL	4.0	0	4.0	0					
KRXI-TV	D23	DT	APP	23.9	10,857			15.9	10,857			
KAXT-CD	D22	DC	CP	35.8	19,115	35.8	19,115	35.8	19,115			
KTFF-DT	D23	DT	CP	541.4	28,763	537.4	28,763	529.4	28,763			
KRDT-CD	D23	DC	LIC	71.9	111	71.9	111	71.9	111			
KMAX-TV	D24	DT	CP	295.6	22,813	291.6	22,813	291.6	22,813			

Interference to BLANK0000024621 CP, scenario 2

Desired:	Call KQCA	Chan D23	Svc DT	Status CP	City, State STOCKTON, CA	File Number BLANK0000024621	Distance			
Undesireds:	KRXI-TV	D23	DT	BL	RENO, NV	DTVBL48360	199.9 km			
	KRXI-TV	D23	DT	APP	RENO, NV	KRXI-23 C170 400KW 171	199.9			
	KAXT-CD	D22	DC	CP	SAN FRANCISCO, SAN JO, CA	BLANK0000027887	91.5			
	KTFF-DT	D23	DT	CP	PORTERVILLE, CA	BLANK0000025094	321.5			
	KRDT-CD	D23	DC	LIC	REDDING, CA	BLDTA20110620AEA	279.8			
	KMAX-TV	D24	DT	APP	SACRAMENTO, CA	BLANK0000029627	2.9			
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
41037.5	10,077,891	35328.7	6,276,197	34372.0	6,199,552	34360.1	6,188,695	0.03	0.18	
Undesired				Total IX	Unique IX, before		Unique IX, after			
KRXI-TV	D23	DT	BL	4.0	0	4.0	0			
KRXI-TV	D23	DT	APP	23.9	10,857		15.9	10,857		
KAXT-CD	D22	DC	CP	35.8	19,115	35.8	19,115	35.8	19,115	
KTFF-DT	D23	DT	CP	541.4	28,763	537.4	28,763	529.4	28,763	
KRDT-CD	D23	DC	LIC	71.9	111	71.9	111	71.9	111	
KMAX-TV	D24	DT	APP	307.6	28,656	303.6	28,656	303.6	28,656	

Interference to proposal, scenario 1

Desired:	Call KRXI-TV	Chan D23	Svc DT	Status APP	City, State RENO, NV	File Number KRXI-23 C170 400KW 171	Distance
Undesireds:	KRDT-CD KQCA	D23 D23	DC DT	LIC CP	REDDING, CA STOCKTON, CA	BLDTA20110620AEA BLANK0000024621	250.1 km 199.9
Service area		Terrain-limited			IX-free	Percent IX	
42955.4	728,876	28286.6	552,214		28095.0	552,214	0.68 0.00
Undesired				Total IX	Unique IX	Prct Unique IX	
KRDT-CD	D23 DC	LIC	4.0	0	4.0	0	0.01 0.00
KQCA	D23 DT	CP	187.7	0	187.7	0	0.66 0.00