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

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: K42JI_Ch20_4x2_290deg_Hgt_Pre, Model: Longley-Rice
Start: 2019.04.18 23:20:56

Study created: 2019.04.18 23:18:08

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

    Proposal: K42JI-D D20 LD APP CERES, CA
 File number: K42JI_Ch20_4x2_290deg_Hgt
 Facility ID: 182084
Station data: User record
   Record ID: 902
     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	KMPH-CD	D19	DC	LIC	MERCED-MARIPOSA, CA	BLANK0000063112	74.9 km
Yes	K19KG-D	D19	LD	CP	NEWMAN, CA	BNPDTL20100513ADT	21.2
No	KMUM-CD	D19	DC	CP	SACRAMENTO, CA	BLANK0000026704	145.2
Yes	KSTS	D19	DT	CP	SAN JOSE, CA	BLANK0000034597	87.9
No	KMBY-LD	D19	LD	LIC	TEMPLETON, CA	BLDTL20100520ADV	125.1
No	KVME-TV	D20	DT	LIC	BISHOP, CA	BLANK0000001562	237.4
No	KNVN	D20	DT	CP	CHICO, CA	BLANK0000034865	325.1
Yes	KSEE	D20	DT	CP	FRESNO, CA	BLANK0000029688	136.4
Yes	KFTV-DT	D20	DT	LIC	HANFORD, CA	BLCDT20020906ABE	135.9
No	KCVU	D20	DT	LIC	PARADISE, CA	BLCDT20081222AAV	284.1
No	K20LH-D	D20	LD	LIC	RIDGECREST, CA	BLDTT20120316ACR	362.3
No	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000036141	145.4
No	K20JX-D	D20	DC	LIC	SACRAMENTO, CA	BLDTA20101006AAS	154.1
Yes	KDTV-DT	D20	DT	CP	SAN FRANCISCO, CA	BLANK0000034452	87.9
Yes	KSCZ-LD	D20	LD	LIC	SAN JOSE-SAN FRANCIS, CA	BLANK0000016657	87.9
Yes	KSCZ-LD	D20	LD	APP	SAN JOSE-SAN FRANCIS, CA	BLANK0000056337	87.9
No	NEW	D20	LD	APP	SANTA BARBARA, CA	BNPDTL20090825ATL	339.7
No	KWSM-LD	D20	LD	LIC	SANTA MARIA, CA	BLANK0000068514	293.4
No	K20FR-D	D20	LD	CP	HAWTHORNE, NV	BMPDTT20090521ADK	214.2
No	K20FR-D	D20	LD	LIC	HAWTHORNE, NV	BLDTT20090914ACI	214.2
No	KAME-TV	D20	DT	LIC	RENO, NV	BLANK0000001059	250.8
No	KAME-TV	D20	DT	APP	RENO, NV	BLANK0000035790	250.8
No	KFTV-DT	D21	DT	CP	HANFORD, CA	BLANK0000034318	135.9
No	KMUV-LP	D21	LD	CP	MONTEREY, CA	BLANK0000067699	98.8
Yes	KMAX-TV	D21	DT	LIC	SACRAMENTO, CA	BLANK0000041624	99.8
Yes	KSPX-TV	D21	DT	CP	SACRAMENTO, CA	BLANK0000030649	101.6
No	KCNZ-CD	D21	DC	BL	SAN FRANCISCO, CA	DTVBL52887	139.1
No	KDTV-CD	D21	DC	CP	SANTA ROSA, CA	BLANK0000064188	201.9
No	KMUV-LP	N23-	TX	LIC	MONTEREY, CA	BLTTL20070402KPQ	98.8
No	K27GZ	N27+	TX	LIC	MARIPOSA, CA	BLTT20020221AAJ	74.9

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: Full Service
   Latitude: 37 29 26.50 N (NAD83)
  Longitude: 120 52 30.50 W
Height AMSL: 44.9 m
       HAAT: 0.0 m
   Peak ERP: 15.0 kW

Antenna: SIRA 4x2 290.0 deg
Elev Pattrn: Generic

49.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	10.4 kW	11.0 m	29.3 km
45.0	0.776	4.1	17.4
90.0	0.029	2.1	7.7
135.0	0.035	11.0	8.0
180.0	0.930	18.3	18.2
225.0	11.2	24.3	29.6
270.0	9.10	25.0	28.7
315.0	9.09	19.3	28.7

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 14 m

Distance to Canadian border: 1212.5 km

Distance to Mexican border: 626.9 km

Conditions at FCC monitoring station: Livermore CA
Bearing: 288.9 degrees Distance: 81.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 73.0 degrees Distance: 1382.3 km

No land mobile station failures found

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 BNPDTL20100513ADT CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K19KG-D	D19	LD	CP	NEWMAN, CA	BNPDTL20100513ADT	
Undesireds:	K42JI-D	D20	LD	APP	CERES, CA	K42JI_Ch20_4x2_290deg_	21.2 km
	KBBV-CD	D19	DC	LIC	BAKERSFIELD, CA	BLDTA20110930BHC	305.7
	K19FY	N19+	TX	LIC	CHICO, CA	BLTT20060109ABD	294.7
	KMPH-CD	D19	DC	LIC	MERCED-MARIPOSA, CA	BLANK0000063112	92.4
	KSCZ-LD	D20	LD	LIC	SAN JOSE-SAN FRANCIS, CA	BLANK0000016657	74.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
646.2	31,247	646.2	31,247	590.2	31,018	588.2	30,906	0.34	0.36

Undesired	Total IX		Unique IX, before		Unique IX, after	
K42JI-D D20 LD APP	2.0	112			2.0	112
KMPH-CD D19 DC LIC	56.0	229	56.0	229	56.0	229

Interference to BLANK0000034597 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSTS	D19	DT	CP	SAN JOSE, CA	BLANK0000034597	
Undesireds:	K42JI-D	D20	LD	APP	CERES, CA	K42JI_Ch20_4x2_290deg_	87.9 km
	KUVS-DT	D18	DT	LIC	MODESTO, CA	BLCDT20020906ABH	122.0
	KBBV-CD	D19	DC	LIC	BAKERSFIELD, CA	BLDTA20110930BHC	371.1
	KMPH-CD	D19	DC	LIC	MERCED-MARIPOSA, CA	BLANK0000063112	162.7
	KMUM-CD	D19	DC	CP	SACRAMENTO, CA	BLANK0000026704	138.7
	KCOY-TV	D19	DT	LIC	SANTA MARIA, CA	BLCDT20030604ACM	325.0
	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000036141	152.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
39610.0	8,361,669	32639.2	7,242,360	31227.9	7,041,337	31227.9	7,041,337	0.00	0.00

Undesired		Total IX	Unique IX, before		Unique IX, after	
K42JI-D D20 LD APP	9.1	0			0.0	0
KUVS-DT D18 DT LIC	663.0	151,459	10.1	5	10.1	5
KBBV-CD D19 DC LIC	7.0	10	3.0	0	3.0	0
KMPH-CD D19 DC LIC	721.0	163,406	193.6	10,936	190.6	10,936
KMUM-CD D19 DC CP	1070.9	186,036	319.2	26,370	319.2	26,370
KCOY-TV D19 DT LIC	98.3	2,815	98.3	2,815	98.3	2,815
K20JX-D D20 DC CP	101.6	5,155	2.0	54	2.0	54

Interference to BLANK0000034597 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSTS	D19	DT	CP	SAN JOSE, CA	BLANK0000034597	
Undesireds:	K42JI-D	D20	LD	APP	CERES, CA	K42JI_Ch20_4x2_290deg_	87.9 km
	KUVS-DT	D18	DT	LIC	MODESTO, CA	BLCDT20020906ABH	122.0
	KBBV-CD	D19	DC	LIC	BAKERSFIELD, CA	BLDTA20110930BHC	371.1
	KMPH-CD	D19	DC	LIC	MERCED-MARIPOSA, CA	BLANK0000063112	162.7
	KMUM-CD	D19	DC	CP	SACRAMENTO, CA	BLANK0000026704	138.7
	KCOY-TV	D19	DT	LIC	SANTA MARIA, CA	BLCDT20030604ACM	325.0
	K20JX-D	D20	DC	LIC	SACRAMENTO, CA	BLDTA20101006AAS	155.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
39610.0	8,361,669	32639.2	7,242,360	31228.9	7,041,337	31228.9	7,041,337	0.00	0.00

Undesired		Total IX	Unique IX, before		Unique IX, after	
K42JI-D D20 LD APP	9.1	0			0.0	0
KUVS-DT D18 DT LIC	663.0	151,459	10.1	5	10.1	5
KBBV-CD D19 DC LIC	7.0	10	3.0	0	3.0	0
KMPH-CD D19 DC LIC	721.0	163,406	193.6	10,936	190.6	10,936
KMUM-CD D19 DC CP	1070.9	186,036	349.4	26,972	349.4	26,972
KCOY-TV D19 DT LIC	98.3	2,815	98.3	2,815	98.3	2,815
K20JX-D D20 DC LIC	1.0	54	1.0	54	1.0	54

Interference to BLANK0000034597 CP scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSTS	D19	DT	CP	SAN JOSE, CA	BLANK0000034597	
Undesireds:	K42JI-D	D20	LD	APP	CERES, CA	K42JI_Ch20_4x2_290deg_	87.9 km
	KUVS-DT	D18	DT	LIC	MODESTO, CA	BLCDT20020906ABH	122.0
	KBBV-CD	D19	DC	CP	BAKERSFIELD, CA	BLANK0000035842	361.6
	KMPH-CD	D19	DC	LIC	MERCED-MARIPOSA, CA	BLANK0000063112	162.7
	KMUM-CD	D19	DC	CP	SACRAMENTO, CA	BLANK0000026704	138.7
	KCOY-TV	D19	DT	LIC	SANTA MARIA, CA	BLCDT20030604ACM	325.0
	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000036141	152.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
39610.0	8,361,669	32639.2	7,242,360	31230.9	7,041,337	31230.9	7,041,337	0.00	0.00

Undesired		Total IX	Unique IX, before		Unique IX, after	
K42JI-D D20 LD APP	9.1	0			0.0	0
KUVS-DT D18 DT LIC	663.0	151,459	10.1	5	10.1	5
KBBV-CD D19 DC CP	2.0	0	0.0	0	0.0	0
KMPH-CD D19 DC LIC	721.0	163,406	194.6	10,936	191.6	10,936
KMUM-CD D19 DC CP	1070.9	186,036	319.2	26,370	319.2	26,370
KCOY-TV D19 DT LIC	98.3	2,815	98.3	2,815	98.3	2,815
K20JX-D D20 DC CP	101.6	5,155	2.0	54	2.0	54

Interference to BLANK0000034597 CP scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSTS	D19	DT	CP	SAN JOSE, CA	BLANK0000034597	
Undesireds:	K42JI-D	D20	LD	APP	CERES, CA	K42JI_Ch20_4x2_290deg_	87.9 km
	KUVS-DT	D18	DT	LIC	MODESTO, CA	BLCDT20020906ABH	122.0
	KBBV-CD	D19	DC	CP	BAKERSFIELD, CA	BLANK0000035842	361.6
	KMPH-CD	D19	DC	LIC	MERCED-MARIPOSA, CA	BLANK0000063112	162.7
	KMUM-CD	D19	DC	CP	SACRAMENTO, CA	BLANK0000026704	138.7
	KCOY-TV	D19	DT	LIC	SANTA MARIA, CA	BLCDT20030604ACM	325.0

	K20JX-D	D20	DC	LIC	SACRAMENTO, CA	BLDTA20101006AAS	155.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
39610.0	8,361,669	32639.2	7,242,360	31231.9	7,041,337	31231.9	7,041,337	0.00	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
K42JI-D D20 LD APP	9.1	0		0.0	0		
KUVS-DT D18 DT LIC	663.0	151,459	10.1	5	10.1	5	
KBBV-CD D19 DC CP	2.0	0	0.0	0	0.0	0	
KMPH-CD D19 DC LIC	721.0	163,406	194.6	10,936	191.6	10,936	
KMUM-CD D19 DC CP	1070.9	186,036	349.4	26,972	349.4	26,972	
KCOY-TV D19 DT LIC	98.3	2,815	98.3	2,815	98.3	2,815	
K20JX-D D20 DC LIC	1.0	54	1.0	54	1.0	54	

Interference to BLANK0000029688 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSEE	D20	DT	CP	FRESNO, CA	BLANK0000029688	
Undesireds:	K42JI-D	D20	LD	APP	CERES, CA	K42JI_Ch20_4x2_290deg_	136.4 km
	KBBV-CD	D19	DC	LIC	BAKERSFIELD, CA	BLDTA20110930BHC	194.7
	KMPH-CD	D19	DC	LIC	MERCED-MARIPOSA, CA	BLANK0000063112	73.9
	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000036141	245.4
	KDTV-DT	D20	DT	CP	SAN FRANCISCO, CA	BLANK0000034452	221.5
	KAME-TV	D20	DT	LIC	RENO, NV	BLANK0000001059	281.3
	KFTV-DT	D21	DT	CP	HANFORD, CA	BLANK0000034318	0.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
32527.2	1,763,174	30095.7	1,747,552	29708.5	1,741,020	29583.3	1,740,867	0.42	0.01

Undesired		Total IX		Unique IX, before		Unique IX, after	
K42JI-D D20 LD APP	185.7	202		125.2	153		
KBBV-CD D19 DC LIC	4.0	26	4.0	26	4.0	26	
KMPH-CD D19 DC LIC	298.0	2,617	297.0	2,617	254.4	2,568	
KDTV-DT D20 DT CP	48.0	71	47.0	71	30.0	71	
KFTV-DT D21 DT CP	38.2	3,818	38.2	3,818	38.2	3,818	

Interference to BLANK0000029688 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSEE	D20	DT	CP	FRESNO, CA	BLANK0000029688	
Undesireds:	K42JI-D	D20	LD	APP	CERES, CA	K42JI_Ch20_4x2_290deg_	136.4 km
	KMPH-CD	D19	DC	LIC	MERCED-MARIPOSA, CA	BLANK0000063112	73.9
	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000036141	245.4
	KDTV-DT	D20	DT	CP	SAN FRANCISCO, CA	BLANK0000034452	221.5
	KAME-TV	D20	DT	LIC	RENO, NV	BLANK0000001059	281.3
	KFTV-DT	D21	DT	CP	HANFORD, CA	BLANK0000034318	0.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
32527.2	1,763,174	30095.7	1,747,552	29712.5	1,741,046	29587.4	1,740,893	0.42	0.01

Undesired		Total IX		Unique IX, before		Unique IX, after	
K42JI-D D20 LD APP	185.7	202		125.2	153		
KMPH-CD D19 DC LIC	298.0	2,617	297.0	2,617	254.4	2,568	
KDTV-DT D20 DT CP	48.0	71	47.0	71	30.0	71	
KFTV-DT D21 DT CP	38.2	3,818	38.2	3,818	38.2	3,818	

Interference to BLCDT20020906ABE LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KFTV-DT	D20	DT	LIC	HANFORD, CA	BLCDT20020906ABE	
Undesireds:	K42JI-D	D20	LD	APP	CERES, CA	K42JI_Ch20_4x2_290deg_	135.9 km
	KBBV-CD	D19	DC	LIC	BAKERSFIELD, CA	BLDTA20110930BHC	195.1
	KMPH-CD	D19	DC	LIC	MERCED-MARIPOSA, CA	BLANK0000063112	73.4
	KSEE	D20	DT	CP	FRESNO, CA	BLANK0000029688	0.5
	KCVU	D20	DT	LIC	PARADISE, CA	BLCDT20081222AAV	377.4
	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000036141	244.9
	KAME-TV	D20	DT	LIC	RENO, NV	BLANK0000001059	281.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
31340.1	1,806,531	29207.4	1,791,066	10125.1	48,388	10120.1	48,388	0.05	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
K42JI-D D20 LD APP	152.5	173				5.1	0
KBBV-CD D19 DC LIC	2.0	0		0.0	0	0.0	0
KMPH-CD D19 DC LIC	265.6	2,471		11.1	6	9.1	6
KSEE D20 DT CP	19071.1	1,742,672		18814.6	1,740,207	18706.7	1,740,071
KCVU D20 DT LIC	1.0	0		0.0	0	0.0	0

Interference to BLCDT20020906ABE LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KFTV-DT	D20	DT	LIC	HANFORD, CA	BLCDT20020906ABE	
Undesireds:	K42JI-D	D20	LD	APP	CERES, CA	K42JI_Ch20_4x2_290deg_	135.9 km
	KMPH-CD	D19	DC	LIC	MERCED-MARIPOSA, CA	BLANK0000063112	73.4
	KSEE	D20	DT	CP	FRESNO, CA	BLANK0000029688	0.5
	KCVU	D20	DT	LIC	PARADISE, CA	BLCDT20081222AAV	377.4
	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000036141	244.9
	KAME-TV	D20	DT	LIC	RENO, NV	BLANK0000001059	281.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
31340.1	1,806,531	29207.4	1,791,066	10125.1	48,388	10120.1	48,388	0.05	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
K42JI-D D20 LD APP	152.5	173				5.1	0
KMPH-CD D19 DC LIC	265.6	2,471		11.1	6	9.1	6
KSEE D20 DT CP	19071.1	1,742,672		18816.6	1,740,207	18708.7	1,740,071
KCVU D20 DT LIC	1.0	0		0.0	0	0.0	0

Interference to BLANK0000034452 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KDTV-DT	D20	DT	CP	SAN FRANCISCO, CA	BLANK0000034452	
Undesireds:	K42JI-D	D20	LD	APP	CERES, CA	K42JI_Ch20_4x2_290deg_	87.9 km
	KNVN	D20	DT	CP	CHICO, CA	BLANK0000034865	307.3
	KSEE	D20	DT	CP	FRESNO, CA	BLANK0000029688	221.5
	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000036141	152.9
	KAME-TV	D20	DT	LIC	RENO, NV	BLANK0000001059	293.6
	KSPX-TV	D21	DT	CP	SACRAMENTO, CA	BLANK0000030649	91.5
	KCNZ-CD	D21	DC	BL	SAN FRANCISCO, CA	DTVBL52887	53.8
	KDTV-CD	D21	DC	CP	SANTA ROSA, CA	BLANK0000064188	146.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
36505.2	7,944,468	30902.0	7,075,394	29342.0	6,767,312	29239.7	6,756,802	0.35	0.16

Undesired		Total IX		Unique IX, before		Unique IX, after	
K42JI-D D20 LD APP	619.6	157,075				102.3	10,510
KNVN D20 DT CP	429.2	80,621		2.0	0	1.0	0
KSEE D20 DT CP	1334.2	198,443		426.9	22,381	393.8	20,909
K20JX-D D20 DC CP	790.7	179,134		37.3	9,629	34.3	9,629
KSPX-TV D21 DT CP	1001.0	215,450		43.3	33,606	42.3	30,874
KCNZ-CD D21 DC BL	45.3	41,839		31.2	29,621	31.2	29,621
KDTV-CD D21 DC CP	33.2	14,953		28.2	12,308	26.1	12,230

Interference to BLANK0000034452 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KDTV-DT	D20	DT	CP	SAN FRANCISCO, CA	BLANK0000034452	
Undesireds:	K42JI-D	D20	LD	APP	CERES, CA	K42JI_Ch20_4x2_290deg_	87.9 km
	KNVN	D20	DT	CP	CHICO, CA	BLANK0000034865	307.3
	KSEE	D20	DT	CP	FRESNO, CA	BLANK0000029688	221.5
	K20JX-D	D20	DC	LIC	SACRAMENTO, CA	BLDTA20101006AAS	155.9
	KAME-TV	D20	DT	LIC	RENO, NV	BLANK0000001059	293.6
	KSPX-TV	D21	DT	CP	SACRAMENTO, CA	BLANK0000030649	91.5
	KCNZ-CD	D21	DC	BL	SAN FRANCISCO, CA	DTVBL52887	53.8
	KDTV-CD	D21	DC	CP	SANTA ROSA, CA	BLANK0000064188	146.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
36505.2	7,944,468	30902.0	7,075,394	29375.3	6,776,941	29270.0	6,766,431	0.36	0.16

Undesired		Total IX		Unique IX, before		Unique IX, after	
K42JI-D D20 LD APP		619.6	157,075			105.3	10,510
KNVN D20 DT CP		429.2	80,621	2.0	2,363	1.0	2,363
KSEE D20 DT CP		1334.2	198,443	440.0	26,493	399.8	23,437
K20JX-D D20 DC LIC		338.1	34,526	4.1	0	4.1	0
KSPX-TV D21 DT CP		1001.0	215,450	70.6	53,005	60.5	41,070
KCNZ-CD D21 DC BL		45.3	41,839	33.3	29,621	32.2	29,621
KDTV-CD D21 DC CP		33.2	14,953	28.2	12,308	26.1	12,230

Interference to BLANK0000016657 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSCZ-LD	D20	LD	LIC	SAN JOSE-SAN FRANCIS, CA	BLANK0000016657	
Undesireds:	K42JI-D	D20	LD	APP	CERES, CA	K42JI_Ch20_4x2_290deg_	87.9 km
	KSTS	D19	DT	CP	SAN JOSE, CA	BLANK0000034597	0.1
	KMBY-LD	D19	LD	LIC	TEMPLETON, CA	BLDTL20100520ADV	109.1
	KNVN	D20	DT	CP	CHICO, CA	BLANK0000034865	307.2
	KSEE	D20	DT	CP	FRESNO, CA	BLANK0000029688	221.5
	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000036141	152.9
	KDTV-DT	D20	DT	CP	SAN FRANCISCO, CA	BLANK0000034452	0.1
	K20FR-D	D20	LD	CP	HAWTHORNE, NV	BMPDTT20090521ADK	292.7
	KAME-TV	D20	DT	LIC	RENO, NV	BLANK0000001059	293.5
	KSPX-TV	D21	DT	CP	SACRAMENTO, CA	BLANK0000030649	91.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
8628.2	5,135,325	6900.0	4,583,962	4115.2	1,112,018	4115.2	1,112,018	0.00	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
K42JI-D D20 LD APP		4.0	0			0.0	0
KSTS D19 DT CP		128.4	131,714	0.0	0	0.0	0
KMBY-LD D19 LD LIC		2.0	0	1.0	0	1.0	0
KNVN D20 DT CP		1.0	0	0.0	0	0.0	0
KSEE D20 DT CP		8.1	346	1.0	0	1.0	0
K20JX-D D20 DC CP		9.1	0	0.0	0	0.0	0
KDTV-DT D20 DT CP		2781.8	3,471,944	2644.2	3,339,884	2643.2	3,339,884
KSPX-TV D21 DT CP		2.0	0	0.0	0	0.0	0

Interference to BLANK0000016657 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSCZ-LD	D20	LD	LIC	SAN JOSE-SAN FRANCIS, CA	BLANK0000016657	
Undesireds:	K42JI-D	D20	LD	APP	CERES, CA	K42JI_Ch20_4x2_290deg_	87.9 km
	KSTS	D19	DT	CP	SAN JOSE, CA	BLANK0000034597	0.1
	KMBY-LD	D19	LD	LIC	TEMPLETON, CA	BLDTL20100520ADV	109.1
	KNVN	D20	DT	CP	CHICO, CA	BLANK0000034865	307.2
	KSEE	D20	DT	CP	FRESNO, CA	BLANK0000029688	221.5
	K20JX-D	D20	DC	LIC	SACRAMENTO, CA	BLDTA20101006AAS	155.9
	KDTV-DT	D20	DT	CP	SAN FRANCISCO, CA	BLANK0000034452	0.1
	K20FR-D	D20	LD	CP	HAWTHORNE, NV	BMPDTT20090521ADK	292.7
	KAME-TV	D20	DT	LIC	RENO, NV	BLANK0000001059	293.5
	KSPX-TV	D21	DT	CP	SACRAMENTO, CA	BLANK0000030649	91.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
8628.2	5,135,325	6900.0	4,583,962	4115.2	1,112,018	4115.2	1,112,018	0.00	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
K42JI-D D20 LD APP		4.0	0			0.0	0
KSTS D19 DT CP		128.4	131,714	0.0	0	0.0	0
KMBY-LD D19 LD LIC		2.0	0	1.0	0	1.0	0
KNVN D20 DT CP		1.0	0	0.0	0	0.0	0
KSEE D20 DT CP		8.1	346	1.0	0	1.0	0
K20JX-D D20 DC LIC		5.1	0	0.0	0	0.0	0
KDTV-DT D20 DT CP		2781.8	3,471,944	2647.3	3,339,884	2645.2	3,339,884
KSPX-TV D21 DT CP		2.0	0	0.0	0	0.0	0

Interference to BLANK0000056337 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSCZ-LD	D20	LD	APP	SAN JOSE-SAN FRANCIS, CA	BLANK0000056337	
Undesireds:	K42JI-D	D20	LD	APP	CERES, CA	K42JI_Ch20_4x2_290deg_	87.9 km
	KSTS	D19	DT	CP	SAN JOSE, CA	BLANK0000034597	0.1
	KMBY-LD	D19	LD	LIC	TEMPLETON, CA	BLDTL20100520ADV	109.1
	KSEE	D20	DT	CP	FRESNO, CA	BLANK0000029688	221.5
	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000036141	152.9
	KDTV-DT	D20	DT	CP	SAN FRANCISCO, CA	BLANK0000034452	0.1
	K20FR-D	D20	LD	CP	HAWTHORNE, NV	BMPDTT20090521ADK	292.7
	KAME-TV	D20	DT	LIC	RENO, NV	BLANK0000001059	293.5
	KSPX-TV	D21	DT	CP	SACRAMENTO, CA	BLANK0000030649	91.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
11738.1	5,639,862	8314.9	4,886,868	4957.0	1,190,740	4957.0	1,190,740	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
K42JI-D D20 LD APP	11.1	964			0.0	0
KSTS D19 DT CP	63.5	60,521	0.0	0	0.0	0
KMBY-LD D19 LD LIC	6.0	127	1.0	0	1.0	0
KSEE D20 DT CP	41.5	2,473	2.0	0	1.0	0
K20JX-D D20 DC CP	11.2	6	0.0	0	0.0	0
KDTV-DT D20 DT CP	3353.9	3,696,128	3242.8	3,633,007	3239.8	3,633,007
KSPX-TV D21 DT CP	1.0	0	0.0	0	0.0	0

Interference to BLANK0000056337 APP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSCZ-LD	D20	LD	APP	SAN JOSE-SAN FRANCIS, CA	BLANK0000056337	
Undesireds:	K42JI-D	D20	LD	APP	CERES, CA	K42JI_Ch20_4x2_290deg_	87.9 km
	KSTS	D19	DT	CP	SAN JOSE, CA	BLANK0000034597	0.1
	KMBY-LD	D19	LD	LIC	TEMPLETON, CA	BLDTL20100520ADV	109.1
	KSEE	D20	DT	CP	FRESNO, CA	BLANK0000029688	221.5
	K20JX-D	D20	DC	LIC	SACRAMENTO, CA	BLDTA20101006AAS	155.9
	KDTV-DT	D20	DT	CP	SAN FRANCISCO, CA	BLANK0000034452	0.1
	K20FR-D	D20	LD	CP	HAWTHORNE, NV	BMPDTT20090521ADK	292.7
	KAME-TV	D20	DT	LIC	RENO, NV	BLANK0000001059	293.5
	KSPX-TV	D21	DT	CP	SACRAMENTO, CA	BLANK0000030649	91.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
11738.1	5,639,862	8314.9	4,886,868	4957.0	1,190,740	4957.0	1,190,740	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
K42JI-D D20 LD APP	11.1	964			0.0	0
KSTS D19 DT CP	63.5	60,521	0.0	0	0.0	0
KMBY-LD D19 LD LIC	6.0	127	1.0	0	1.0	0
KSEE D20 DT CP	41.5	2,473	3.0	0	2.0	0
K20JX-D D20 DC LIC	6.1	0	0.0	0	0.0	0
KDTV-DT D20 DT CP	3353.9	3,696,128	3244.9	3,633,007	3241.8	3,633,007
KSPX-TV D21 DT CP	1.0	0	0.0	0	0.0	0

Interference to BLANK0000041624 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KMAX-TV	D21	DT	LIC	SACRAMENTO, CA	BLANK0000041624	
Undesireds:	K42JI-D	D20	LD	APP	CERES, CA	K42JI_Ch20_4x2_290deg_	99.8 km
	KCVU	D20	DT	LIC	PARADISE, CA	BLCDT20081222AAV	192.2
	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000036141	64.4
	KAME-TV	D20	DT	LIC	RENO, NV	BLANK0000001059	209.8
	KSPX-TV	D21	DT	CP	SACRAMENTO, CA	BLANK0000030649	2.9
	KTXL	D22	DT	CP	SACRAMENTO, CA	BLANK0000030659	3.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
44037.7	10,636,754	39095.1	6,832,802	16116.6	1,885,076	16116.6	1,885,076	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
K42JI-D D20 LD APP	6.0	29			0.0	0
KCVU D20 DT LIC	2.0	2	0.0	0	0.0	0
K20JX-D D20 DC CP	9.0	589	1.0	0	1.0	0

KSPX-TV D21 DT CP	22970.6	4,946,941	22836.5	4,936,089	22830.5	4,936,060		
KTXL D22 DT CP	132.1	11,282	7.0	785	7.0	785		

Interference to BLANK0000041624 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KMAX-TV	D21	DT	LIC	SACRAMENTO, CA	BLANK0000041624	
Undesireds:	K42JI-D	D20	LD	APP	CERES, CA	K42JI_Ch20_4x2_290deg_	99.8 km
	KCVU	D20	DT	LIC	PARADISE, CA	BLCDT20081222AAV	192.2
	K20JX-D	D20	DC	LIC	SACRAMENTO, CA	BLDTA20101006AAS	67.8
	KAME-TV	D20	DT	LIC	RENO, NV	BLANK0000001059	209.8
	KSPX-TV	D21	DT	CP	SACRAMENTO, CA	BLANK0000030649	2.9
	KTXL	D22	DT	CP	SACRAMENTO, CA	BLANK0000030659	3.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
44037.7	10,636,754	39095.1	6,832,802	16115.6	1,885,020	16115.6	1,885,020	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
K42JI-D D20 LD APP	6.0	29			0.0	0
KCVU D20 DT LIC	2.0	2	0.0	0	0.0	0
K20JX-D D20 DC LIC	7.0	397	2.0	56	2.0	56
KSPX-TV D21 DT CP	22970.6	4,946,941	22838.5	4,936,101	22832.5	4,936,072
KTXL D22 DT CP	132.1	11,282	7.0	785	7.0	785

Interference to BLANK0000030649 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSPX-TV	D21	DT	CP	SACRAMENTO, CA	BLANK0000030649	
Undesireds:	K42JI-D	D20	LD	APP	CERES, CA	K42JI_Ch20_4x2_290deg_	101.6 km
	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000036141	61.5
	KDTV-DT	D20	DT	CP	SAN FRANCISCO, CA	BLANK0000034452	91.5
	KAME-TV	D20	DT	LIC	RENO, NV	BLANK0000001059	207.2
	KFTV-DT	D21	DT	CP	HANFORD, CA	BLANK0000034318	224.5
	KCNZ-CD	D21	DC	BL	SAN FRANCISCO, CA	DTVBL52887	104.7
	KDTV-CD	D21	DC	CP	SANTA ROSA, CA	BLANK0000064188	108.9
	KTXL	D22	DT	CP	SACRAMENTO, CA	BLANK0000030659	1.5
	KAXT-CD	D22	DC	CP	SAN FRANCISO, SAN JO, CA	BLANK0000034505	91.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
38528.4	7,276,002	35253.7	5,480,515	31904.0	4,966,313	31901.0	4,966,277	0.01	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
K42JI-D D20 LD APP	16.2	1,186			3.0	36
K20JX-D D20 DC CP	9.0	525	8.0	400	8.0	400
KDTV-DT D20 DT CP	97.0	16,635	11.1	3,358	11.1	3,358
KFTV-DT D21 DT CP	1865.2	237,961	1341.6	184,852	1330.5	183,847
KCNZ-CD D21 DC BL	688.3	63,698	153.0	3,970	153.0	3,970
KDTV-CD D21 DC CP	1666.9	302,627	780.0	202,562	780.0	202,562
KTXL D22 DT CP	184.7	12,883	122.5	7,918	122.5	7,918
KAXT-CD D22 DC CP	1.0	37	0.0	0	0.0	0

Interference to BLANK0000030649 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSPX-TV	D21	DT	CP	SACRAMENTO, CA	BLANK0000030649	
Undesireds:	K42JI-D	D20	LD	APP	CERES, CA	K42JI_Ch20_4x2_290deg_	101.6 km
	K20JX-D	D20	DC	LIC	SACRAMENTO, CA	BLDTA20101006AAS	64.9
	KDTV-DT	D20	DT	CP	SAN FRANCISCO, CA	BLANK0000034452	91.5
	KAME-TV	D20	DT	LIC	RENO, NV	BLANK0000001059	207.2
	KFTV-DT	D21	DT	CP	HANFORD, CA	BLANK0000034318	224.5
	KCNZ-CD	D21	DC	BL	SAN FRANCISCO, CA	DTVBL52887	104.7
	KDTV-CD	D21	DC	CP	SANTA ROSA, CA	BLANK0000064188	108.9
	KTXL	D22	DT	CP	SACRAMENTO, CA	BLANK0000030659	1.5
	KAXT-CD	D22	DC	CP	SAN FRANCISO, SAN JO, CA	BLANK0000034505	91.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
38528.4	7,276,002	35253.7	5,480,515	31911.0	4,966,711	31908.0	4,966,675	0.01	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
K42JI-D D20 LD APP	16.2	1,186				3.0	36
K20JX-D D20 DC LIC	7.0	414	1.0	2		1.0	2
KDTV-DT D20 DT CP	97.0	16,635	11.1	3,358		11.1	3,358
KFTV-DT D21 DT CP	1865.2	237,961	1341.6	184,852		1330.5	183,847
KCNZ-CD D21 DC BL	688.3	63,698	153.0	3,970		153.0	3,970
KDTV-CD D21 DC CP	1666.9	302,627	775.0	202,275		775.0	202,275
KTXL D22 DT CP	184.7	12,883	122.5	7,918		122.5	7,918
KAXT-CD D22 DC CP	1.0	37	0.0	0		0.0	0

Interference to proposal scenario 1
84.67% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K42JI-D	D20	LD	APP	CERES, CA	K42JI_Ch20_4x2_290deg_	
Undesireds:	K19KG-D	D19	LD	CP	NEWMAN, CA	BNPDTL20100513ADT	21.2 km
	KSEE	D20	DT	CP	FRESNO, CA	BLANK0000029688	136.4
	K20JX-D	D20	DC	CP	SACRAMENTO, CA	BLANK0000036141	145.4
	KSCZ-LD	D20	LD	LIC	SAN JOSE-SAN FRANCIS, CA	BLANK0000016657	87.9
	K20FR-D	D20	LD	CP	HAWTHORNE, NV	BMPDTT20090521ADK	214.2
	KAME-TV	D20	DT	LIC	RENO, NV	BLANK0000001059	250.8
	KSPX-TV	D21	DT	CP	SACRAMENTO, CA	BLANK0000030649	101.6

Service area		Terrain-limited		IX-free		Percent IX	
1652.5	475,559	1650.5	475,482	254.8	72,869	84.56	84.67

Undesired	Total IX		Unique IX		Prcnt Unique IX	
K19KG-D D19 LD CP	1.0	25	0.0	0	0.00	0.00
KSEE D20 DT CP	1395.7	402,613	1385.6	401,170	83.95	84.37
KSPX-TV D21 DT CP	9.1	1,418	0.0	0	0.00	0.00