

KTXL-DT Post-Transition Interference Analysis

Percent allowed new interference: 0.500
Percent allowed new interference to Class A: 0.500
Census data selected 2000

Post Transition Data Base Selected
/export/home/cdbs/tvdb.sff_G
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Record Selected for Analysis

KTXLDT USERRECORD-01 SACRAMENTO CA US
Channel 40 ERP 1000. kW HAAT 601. m RCAMSL 00602 m
Latitude 038-16-18 Longitude 0121-30-18
Status APP Zone 2 Border
Dir Antenna Make usr Model 3BP250 Beam tilt N Ref Azimuth 0.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility does not meet maximum height/power limits
Channel 40 ERP = 1000.00 HAAT = 601.

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	777.924	601.5	118.2
45.0	617.796	596.9	115.8
90.0	356.409	598.5	110.9
135.0	943.812	600.8	120.1
180.0	289.444	602.8	109.3
225.0	66.306	602.9	96.7
270.0	125.316	602.0	102.1
315.0	48.400	601.8	94.0

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

Proposed facility OK to FCC Monitoring Stations

KTXL-DT Post-Transition Interference Analysis

Proposed facility OK toward West Virginia quite zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

	Proposed Station			
Channel	Call	City/State		ARN
40	KTXLDT	SACRAMENTO CA		USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	KCNS	SAN FRANCISCO CA	100.8	CP	BPCDT	-19991101AFD
40	KVPT	FRESNO CA	259.3	LIC	BLEDT	-20040716ACA
41	KKPX	SAN JOSE CA	104.1	LIC	BLCDT	-20021108ABD

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
39	KCNS	SAN FRANCISCO CA	BPCDT	-19991101AFD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	KRON-TV	SAN FRANCISCO CA	0.0	LIC	BLCDT	-19990503KF
40	KTXLDT	SACRAMENTO CA	100.8	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1
 Scenario 1 Affected station 1
 Before Analysis

Results for: 39A CA SAN FRANCISCO BPCDT 19991101AFD CP
 HAAT 428.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7305435	31337.1
not affected by terrain losses	6527318	25936.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	260654	1642.3
lost to ATV IX only	260654	1642.3
lost to all IX	260654	1642.3

KTXL-DT Post-Transition Interference Analysis

Potential Interfering Stations Included in above Scenario 1

40A CA SACRAMENTO ALLOTMENT RECORD

After Analysis

Results for: 39A CA SAN FRANCISCO BPCDT 19991101AFD CP
 HAAT 428.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7305435	31337.1
not affected by terrain losses	6527318	25936.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	258888	1566.1
lost to ATV IX only	258888	1566.1
lost to all IX	258888	1566.1

Potential Interfering Stations Included in above Scenario 1

40A CA SACRAMENTO USERRECORD01 APP

Percent new IX = -0.0282%

Worst case new IX -0.0282% Scenario 1

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
40	KVPT	FRESNO CA	BLEDT	-20040716ACA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
40	KBLR	PARADISE NV	391.2	CP MOD	BMPCDT	-20000501AEX
40	KTXLDT	SACRAMENTO CA	259.3	APP	USERRECORD-01	

Total scenarios = 1

Result key: 2
 Scenario 1 Affected station 2
 Before Analysis

Results for: 40A CA FRESNO BLEDT 20040716ACA LIC
 HAAT 698.0 m, ATV ERP 250.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1474239	34260.7
not affected by terrain losses	1441817	29819.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	575	318.1
lost to ATV IX only	575	318.1

KTXL-DT Post-Transition Interference Analysis

lost to all IX 575 318.1

Potential Interfering Stations Included in above Scenario 1

40A CA SACRAMENTO **ALLOTMENT RECORD**

After Analysis

Results for: 40A CA FRESNO BLEDT 20040716ACA LIC

HAAT 698.0 m, ATV ERP 250.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1474239	34260.7
not affected by terrain losses	1441817	29819.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	575	342.2
lost to ATV IX only	575	342.2
lost to all IX	575	342.2

Potential Interfering Stations Included in above Scenario 1

40A CA SACRAMENTO USERRECORD01 APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
41	KKPX	SAN JOSE CA	BLCDT	-20021108ABD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
40	KTXLDT	SACRAMENTO CA	104.1	APP	USERRECORD-01	

Total scenarios = 1

Result key: 3
 Scenario 1 Affected station 3
 Before Analysis

Results for: 41A CA SAN JOSE BLEDT 20021108ABD LIC

HAAT 418.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7435026	31156.6
not affected by terrain losses	6462676	25471.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	212294	1976.7
lost to ATV IX only	212294	1976.7

KTXL-DT Post-Transition Interference Analysis

lost to all IX 212294 1976.7

Potential Interfering Stations Included in above Scenario 1

40A CA SACRAMENTO **ALLOTMENT RECORD**

After Analysis

Results for: 41A CA SAN JOSE BLCDT 20021108ABD LIC
 HAAT 418.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7435026	31156.6
not affected by terrain losses	6462676	25471.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	210113	1916.4
lost to ATV IX only	210113	1916.4
lost to all IX	210113	1916.4

Potential Interfering Stations Included in above Scenario 1

40A CA SACRAMENTO USERRECORD01 APP

Percent new IX = -0.0349%

Worst case new IX -0.0349% Scenario 1

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
40	KTXLDT	SACRAMENTO CA	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
39	KCNS	SAN FRANCISCO CA	100.8	CP	BPCDT -19991101AFD
40	KVPT	FRESNO CA	259.3	LIC	BLEDT -20040716ACA
41	KKPX	SAN JOSE CA	104.1	LIC	BLCDT -20021108ABD

Total scenarios = 1

Result key: 4
 Scenario 1 Affected station 4
 Before Analysis

Results for: 40A CA SACRAMENTO USERRECORD01 APP
 HAAT 601.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	6654808	36999.1
not affected by terrain losses	4719751	32886.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	214221	1408.6

KTXL-DT Post-Transition Interference Analysis

lost to ATV IX only	214221	1408.6
lost to all IX	214221	1408.6

Potential Interfering Stations Included in above Scenario 1

39A CA SAN FRANCISCO	BPCDT	19991101AFD	CP
40A CA FRESNO	BLEDT	20040716ACA	LIC
41A CA SAN JOSE	BLCDT	20021108ABD	LIC

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