

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

| Channel | Proposed Station 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 |

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

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

#####

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

#####

Analysis of Interference to Affected Station 3

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|------|-------------|-------------|--------------|
| 41 | KKPX | SAN JOSE CA | BLCDDT | -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 BLCDDT 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 BLC DT 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

#####

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 | BLC DT -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 |

#####

FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED