

TECHNICAL SUMMARY
DISPLACEMENT APPLICATION FOR CONSTRUCTION PERMIT
LOW POWER DIGITAL STATION K27PC-D
YUMA, ARIZONA
CHANNEL 26 1.8 KW (DA)

1. *Application Purpose:* As detailed below, K27PC-D is eligible for displacement due to impermissible interference caused and received with the authorized (CP) operation of full power station KAZS on channel 27 at Yuma, Arizona (LMS File No. 0000212367). Therefore, it is proposed to operate K27PC-D on channel 26 from its current site location with a directional antenna maximum effective radiated power (ERP) of 1.8 kW using an ERI model ALP8L2-HSOC-26 horizontally polarized directional antenna (DA) with a main lobe orientation of 270 degrees true. The antenna radiation center height will be 546.6 m AMSL. There will be no change in the overall structure height (ASRN 1007974).

2. *Eligibility to File a Displacement Application:* Station K27PC-D's licensed channel 27 operation (LMS File No. 0000179077) is considered to be displaced due to impermissible interference caused and received with the authorized operation of full power station KAZS on channel 27 at Yuma, Arizona (LMS File No. 0000212367). Specifically, as indicated by the attached *TVStudy* analysis (Figure 1), K27PC-D's licensed channel 27 operation is predicted to cause 9.36% new interference to KAZS (up to 0.5% new interference is permitted) and will receive 82.49% new interference from KAZS (a 2% threshold is generally used by the FCC for determination of displacement).

3. *Interference Compliance:* As indicated in the attached *TVStudy* analysis summaries, K27PC-D's proposed channel 26 operation meets the FCC's interference protection requirements with respect to all protected domestic and Mexican facilities.¹

4. *RFR Compliance:* The proposed facilities were evaluated in terms of potential radiofrequency radiation (RFR) exposure at ground level to workers and the general public. In this case, the site is on a remote mountaintop controlled by the Bureau of Land Management (BLM) and is considered a controlled site. The radiation center for the

¹ Two *TVStudy* analyses were run, one with US stations only (Figure 2A) and one with US and Mexican stations (Figure 2B). It is noted that the "default" template along with a terrain cell size of 2 km and a profile point spacing of 1 kilometer were used for the *TVStudy* analysis depicted in Figure 2B.

proposed DTV antenna will be located 55 meters above ground level. The total DTV ERP is 1.8 kW (horizontal polarization). A greater than expected vertical plane relative field value of 0.27 is presumed for the antenna's downward radiation (-60° to -90° elevation, see antenna vertical plane relative field pattern attached). The calculated power density at a point 2 meters above ground level is 1.56 uW/cm^2 which is 0.09% of the FCC's recommended limit of 1816.7 uW/cm^2 for channel 26 for a controlled environment and 0.43% of the FCC's recommended limit of 363.3 uW/cm^2 for an uncontrolled environment. Thus, it is believed that the proposed K27PC-D facility is in full compliance with the FCC's requirements with regard to RF radiation exposure.

Access to the transmitting site shall be restricted and appropriately marked with RFR warning signs. Furthermore, as this is a multi-user site, a formal RFR protection protocol is in effect in the event that workers or other authorized personnel enter the restricted area or climb the tower to ensure that appropriate measures will be taken to assure worker safety with respect to RFR exposure. Such measures include limiting the exposure time, wearing protective clothing, reducing power to an acceptable level or termination of transmitter output power all together until workers leave the restricted area.

TVStudy Analysis - K27PC-D Ch 27 License

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: K27PC-D License #320, Model: Longley-Rice
Start: 2023.03.20 10:25:48

Study created: 2023.03.20 10:25:47

Study build station data: LMS TV 2023-03-19

Proposal: K27PC-D D27 LD LIC YUMA, AZ
File number: K27PC-D License
Facility ID: 182419
Station data: User record
Record ID: 319
Country: U.S.

Stations potentially affected by proposal:

| IX | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-----|----------------|------|-----|--------|--------------------------|--------------------|----------|
| No | K19CX-D | N19 | TX | LIC | YUMA, AZ | BLTT19941212JC | 0.3 km |
| No | KUTP | D26 | DT | LIC | PHOENIX, AZ | BLCDT20130625AAK | 224.4 |
| No | KMIR-TV | D26 | DT | LIC | PALM SPRINGS, CA | BLANK0000075143 | 235.8 |
| No | KSWB-TV | D26 | DT | LIC | SAN DIEGO, CA | BLANK0000068712 | 243.2 |
| No | K27DA-D | D27 | LD | LIC | BIG SANDY VALLEY, AZ | BLDTT20130308AAI | 274.2 |
| No | KTVW-CD | D27 | DC | LIC | FLAGSTAFF/DONEY PARK, AZ | BLDTA20140421ACI | 365.0 |
| No | K27KS-D | D27 | LD | LIC | GLOBE/MIAMI, AZ | BLDTT20130312ACC | 331.4 |
| No | K27NT-D | D27 | LD | LIC | GOLDEN VALLEY, AZ | BLANK0000071725 | 284.2 |
| No | K27OP-D | D27 | LD | LIC | ORO VALLEY/TUCSON, AZ | BLANK0000067692 | 316.5 |
| Yes | KASW | D27 | DD | LIC | PHOENIX, AZ | BLANK0000204930 | 224.3 |
| No | DDDKDFQ-LPD27z | | LD | APP | PRESCOTT, AZ | BLANK0000052540 | 303.7 |
| No | KYPO-LD | D27 | LD | LIC | TACNA, AZ | BLANK0000179279 | 134.8 |
| No | KYPO-LD | N27 | TX | LIC | TACNA, AZ | BLTTL20080818AAL | 134.8 |
| No | K27NR-D | D27 | LD | LIC | TOPOCK, AZ | BLANK0000071723 | 262.7 |
| Yes | KAZS | D27 | DT | CP | YUMA, AZ | BLANK0000212367 | 62.5 |
| No | KSCD-LD | D27- | LD | LIC | HEMET, CA | BLANK0000193695 | 303.4 |
| Yes | KVER-CD | D27 | DC | LIC | INDIO, CA | BLANK0000074955 | 235.7 |
| No | K27ON-D | D27 | LD | LIC | LUCERNE VALLEY, CA | BLANK0000082020 | 308.4 |
| No | KPOM-CD | D27 | DC | LIC | ONTARIO, CA | BLANK0000189414 | 385.7 |
| No | KPCD-LD | D27- | LD | LIC | SAN FERNANDO, CA | BLANK0000193342 | 303.4 |
| No | KPCD-LD | D27- | LD | APP | SAN FERNANDO, CA | BLANK0000203594 | 313.1 |
| No | K27AE-D | D27 | LD | LIC | VICTORVILLE, ETC., CA | BLANK0000143996 | 347.8 |
| No | K27AE-D | N27 | TX | LIC | VICTORVILLE, ETC., CA | BLTT19820105IF | 347.8 |
| No | DK27DS | D27 | LD | APP | YUCCA VALLEY, CA | BDFCDTT20120606AAZ | 275.6 |
| No | KPVT-LD | D27 | LD | LIC | LAS VEGAS, NV | BLANK0000010689 | 376.0 |
| No | KGRY-LD | D28 | LD | LIC | GILA RIVER INDIAN CO, AZ | BLANK0000157663 | 224.0 |
| No | K28QP-D | D28 | LD | CP | SALOME, AZ | BNPDTL20100514AEQ | 130.0 |
| No | K28QO-D | D28 | LD | CP | SENTINEL, AZ | BNPDTL20100510AAS | 107.4 |
| Yes | DK28FM | N28z | TX | APP | YUMA, AZ | BLTTL20001006AAL | 0.2 |
| No | KESQ-TV | D28 | DT | LIC | PALM SPRINGS, CA | BLANK0000078362 | 235.9 |
| No | KESE-LD | N35 | TX | LIC | YUMA, AZ | BLTTL20001117AAJ | 21.3 |

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D27
Mask: Full Service
Latitude: 32 40 21.00 N (NAD83)
Longitude: 114 20 10.00 W
Height AMSL: 499.4 m (Adjusted based on actual ground elevation calculation)
HAAT: 0.0 m
Peak ERP: 1.00 kW
Antenna: IRTE-1230EH (ID 1009136) 270.0 deg
Elev Pattnr: Generic

50.0 dBu contour:

| Azimuth | ERP | HAAT | Distance |
|---------|----------|---------|----------|
| 0.0 deg | 0.002 kW | 428.1 m | 14.7 km |
| 45.0 | 0.002 | 344.6 | 13.1 |
| 90.0 | 0.014 | 432.3 | 22.9 |
| 135.0 | 0.002 | 343.4 | 13.1 |

| | | | |
|-------|-------|-------|------|
| 180.0 | 0.002 | 187.7 | 9.9 |
| 225.0 | 0.240 | 368.8 | 36.5 |
| 270.0 | 1.00 | 411.4 | 46.6 |
| 315.0 | 0.240 | 322.2 | 34.9 |

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 355 m

Distance to Canadian border: 1814.8 km

**Proposal is within coordination distance of Mexican border
Distance to Mexican border: 33.9 km

Conditions at FCC monitoring station: Douglas AZ
Bearing: 105.2 degrees Distance: 459.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 41.9 degrees Distance: 1158.6 km

Study cell size: 1.00 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 BLANK0000204930 LIC scenario 1

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance | | |
|--------------|------------|-----------------|-----------|-------------------|--------------------------|------------------|-----------|----------------|------|
| | KASW | D27 | DD | LIC | PHOENIX, AZ | BLANK0000204930 | | | |
| Undesireds: | K27PC-D | D27 | LD | LIC | YUMA, AZ | K27PC-D License | 224.3 km | | |
| | KUTP | D26 | DT | LIC | PHOENIX, AZ | BLCDT20130625AAK | 0.1 | | |
| | KTVW-CD | D27 | DC | LIC | FLAGSTAFF/DONEY PARK, AZ | BLDTA20140421ACI | 188.7 | | |
| | KAZS | D27 | DT | CP | YUMA, AZ | BLANK0000212367 | 259.1 | | |
| | KUAS-TV | D28 | DT | LIC | TUCSON, AZ | BLEDT20030115ABS | 158.8 | | |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | | Percent New IX | |
| 35433.1 | 4,174,222 | 28814.7 | 4,159,877 | 28584.4 | 4,159,723 | 28582.4 | 4,159,723 | 0.01 | 0.00 |
| Undesired | | Total IX | | Unique IX, before | | Unique IX, after | | | |
| K27PC-D | D27 LD LIC | 2.0 | 0 | | | 2.0 | 0 | | |
| KUTP | D26 DT LIC | 141.2 | 141 | 141.2 | 141 | 141.2 | 141 | | |
| KTVW-CD | D27 DC LIC | 38.0 | 13 | 37.0 | 13 | 37.0 | 13 | | |
| KAZS | D27 DT CP | 49.0 | 0 | 48.0 | 0 | 48.0 | 0 | | |
| KUAS-TV | D28 DT LIC | 3.0 | 0 | 3.0 | 0 | 3.0 | 0 | | |

Interference to BLANK0000204930 LIC scenario 2

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance | | |
|--------------|------------|-----------------|-----------|-------------------|--------------------------|------------------|-----------|----------------|------|
| | KASW | D27 | DD | LIC | PHOENIX, AZ | BLANK0000204930 | | | |
| Undesireds: | K27PC-D | D27 | LD | LIC | YUMA, AZ | K27PC-D License | 224.3 km | | |
| | KUTP | D26 | DT | LIC | PHOENIX, AZ | BLCDT20130625AAK | 0.1 | | |
| | KTVW-CD | D27 | DC | LIC | FLAGSTAFF/DONEY PARK, AZ | BLDTA20140421ACI | 188.7 | | |
| | KAZS | D27 | DT | BL | YUMA, AZ | DTVBL776268 | 259.2 | | |
| | KUAS-TV | D28 | DT | LIC | TUCSON, AZ | BLEDT20030115ABS | 158.8 | | |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | | Percent New IX | |
| 35433.1 | 4,174,222 | 28814.7 | 4,159,877 | 28573.4 | 4,159,723 | 28573.4 | 4,159,723 | 0.00 | 0.00 |
| Undesired | | Total IX | | Unique IX, before | | Unique IX, after | | | |
| K27PC-D | D27 LD LIC | 2.0 | 0 | | | 0.0 | 0 | | |
| KUTP | D26 DT LIC | 141.2 | 141 | 141.2 | 141 | 141.2 | 141 | | |
| KTVW-CD | D27 DC LIC | 38.0 | 13 | 36.0 | 13 | 36.0 | 13 | | |
| KAZS | D27 DT BL | 61.0 | 0 | 59.0 | 0 | 57.0 | 0 | | |
| KUAS-TV | D28 DT LIC | 3.0 | 0 | 3.0 | 0 | 3.0 | 0 | | |

Interference to BLANK0000212367 CP scenario 1
**IX: 9.36% interference caused

| | | | | | | | | | | |
|--------------|--------------|-----------------|-----------|-----------------|-------------------------|--------------------------------|------------------|-----------|-------------|------------------|
| Desired: | Call KAZS | Chan D27 | Svc DT | Status CP | City, State YUMA, AZ | File Number BLANK0000212367 | Distance | | | |
| Undesireds: | K27PC-D | D27 | LD | LIC | YUMA, AZ | K27PC-D License | 62.5 km | | | |
| | KMIR-TV | D26 | DT | LIC | PALM SPRINGS, CA | BLANK0000075143 | 174.2 | | | |
| | KASW | D27 | DD | LIC | PHOENIX, AZ | BLANK0000204930 | 259.1 | | | |
| | KVER-CD | D27 | DC | LIC | INDIO, CA | BLANK0000074955 | 174.1 | | | |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | Percent New IX | | | |
| 19377.6 | 388,463 | 17051.0 | | 387,999 | 16583.4 | 386,591 | 15481.5 | 350,414 | 6.64 | 9.36 |
| 4505.5 | 1,065,875 | 4499.5 | | 1,065,875 | 4499.5 | 1,065,875 | 4332.8 | 1,042,232 | 3.70 | 2.22 (in Mexico) |
| Undesired | | | | Total IX | Unique IX, before | | Unique IX, after | | | |
| K27PC-D | D27 LD LIC | 1144.7 | | 36,210 | | | 1101.9 | 36,177 | | |
| K27PC-D | D27 LD LIC | 166.7 | | 23,643 | | | 166.7 | 23,643 | (in Mexico) | |
| KMIR-TV | D26 DT LIC | 5.0 | | 0 | 0.0 | 0 | 0.0 | 0 | | |
| KASW | D27 DD LIC | 24.9 | | 28 | 24.9 | 28 | 11.9 | 0 | | |
| KVER-CD | D27 DC LIC | 442.7 | | 1,380 | 437.8 | 1,380 | 412.9 | 1,375 | | |

Interference to BLANK0000074955 LIC scenario 1

| | | | | | | | | | | |
|--------------|-----------------|-----------------|-----------|-----------------|--------------------------|--------------------------------|------------------|----------------|-------|------|
| Desired: | Call KVER-CD | Chan D27 | Svc DC | Status LIC | City, State INDIO, CA | File Number BLANK0000074955 | Distance | | | |
| Undesireds: | K27PC-D | D27 | LD | LIC | YUMA, AZ | K27PC-D License | 235.7 km | | | |
| | KMIR-TV | D26 | DT | LIC | PALM SPRINGS, CA | BLANK0000075143 | 0.1 | | | |
| | KAZS | D27 | DT | CP | YUMA, AZ | BLANK0000212367 | 174.1 | | | |
| | KPOM-CD | D27 | DC | LIC | ONTARIO, CA | BLANK0000189414 | 154.9 | | | |
| | KEYT-TV | D27 | DT | LIC | SANTA BARBARA, CA | BLCDT20061102ABJ | 332.3 | | | |
| | KESQ-TV | D28 | DT | LIC | PALM SPRINGS, CA | BLANK0000078362 | 0.1 | | | |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | | Percent New IX | | |
| 7452.7 | 623,334 | 5255.5 | | 453,763 | 5085.0 | 439,834 | 5085.0 | 439,834 | 0.00 | 0.00 |
| Undesired | | | | Total IX | Unique IX, before | | Unique IX, after | | | |
| K27PC-D | D27 | LD | LIC | 3.0 | 0 | | 0.0 | 0 | | |
| KMIR-TV | D26 | DT | LIC | 66.4 | 4,634 | 25.7 | 909 | 25.7 | 909 | |
| KAZS | D27 | DT | CP | 97.2 | 710 | 77.4 | 686 | 76.4 | 686 | |
| KPOM-CD | D27 | DC | LIC | 21.7 | 7,299 | 14.8 | 5,476 | 14.8 | 5,476 | |
| KEYT-TV | D27 | DT | LIC | 2.0 | 0 | 0.0 | 0 | 0.0 | 0 | |
| KESQ-TV | D28 | DT | LIC | 43.6 | 5,031 | 6.9 | 3,133 | 6.9 | 3,133 | |

Interference to BLANK0000074955 LIC scenario 2

| | | | | | | | | | | |
|--------------|-----------------|-----------------|-----------|-----------------|--------------------------|--------------------------------|------------------|----------------|-------|------|
| Desired: | Call KVER-CD | Chan D27 | Svc DC | Status LIC | City, State INDIO, CA | File Number BLANK0000074955 | Distance | | | |
| Undesireds: | K27PC-D | D27 | LD | LIC | YUMA, AZ | K27PC-D License | 235.7 km | | | |
| | KMIR-TV | D26 | DT | LIC | PALM SPRINGS, CA | BLANK0000075143 | 0.1 | | | |
| | KAZS | D27 | DT | BL | YUMA, AZ | DTVBL776268 | 173.9 | | | |
| | KPOM-CD | D27 | DC | LIC | ONTARIO, CA | BLANK0000189414 | 154.9 | | | |
| | KEYT-TV | D27 | DT | LIC | SANTA BARBARA, CA | BLCDT20061102ABJ | 332.3 | | | |
| | KESQ-TV | D28 | DT | LIC | PALM SPRINGS, CA | BLANK0000078362 | 0.1 | | | |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | | Percent New IX | | |
| 7452.7 | 623,334 | 5255.5 | | 453,763 | 5105.8 | 439,389 | 5105.8 | 439,389 | 0.00 | 0.00 |
| Undesired | | | | Total IX | Unique IX, before | | Unique IX, after | | | |
| K27PC-D | D27 | LD | LIC | 3.0 | 0 | | 0.0 | 0 | | |
| KMIR-TV | D26 | DT | LIC | 66.4 | 4,634 | 24.8 | 913 | 24.8 | 913 | |
| KAZS | D27 | DT | BL | 76.4 | 1,151 | 56.6 | 1,131 | 55.6 | 1,131 | |
| KPOM-CD | D27 | DC | LIC | 21.7 | 7,299 | 14.8 | 5,476 | 14.8 | 5,476 | |
| KEYT-TV | D27 | DT | LIC | 2.0 | 0 | 0.0 | 0 | 0.0 | 0 | |
| KESQ-TV | D28 | DT | LIC | 43.6 | 5,031 | 7.9 | 3,133 | 7.9 | 3,133 | |

Interference to BLTTL20001006AAL APP scenario 1

| | | | | | | | |
|--------------|----------------|-----------------|-----------|-------------------|-------------------------|----------------------------------|----------------|
| Desired: | Call DK28FM | Chan N28z | Svc TX | Status APP | City, State YUMA, AZ | File Number BLTTTL20001006AAL | Distance |
| Undesireds: | K27PC-D | D27 | LD | LIC | YUMA, AZ | K27PC-D License | 0.2 km |
| | K28QO-D | D28 | LD | CP | SENTINEL, AZ | BNPDTL20100510AAS | 107.5 |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | Percent New IX |
| 108.2 | 32,143 | 90.1 | | 30,278 | 88.1 | 30,278 | 0.00 0.00 |
| Undesired | | Total IX | | Unique IX, before | | Unique IX, after | |
| K27PC-D | D27 LD LIC | 1.0 | | 0 | | 0.0 | 0 |
| K28QO-D | D28 LD CP | 2.0 | | 0 | 2.0 0 | 1.0 | 0 |

Interference to proposal scenario 1

82.49% interference received

| | | | | | | | |
|--------------|-----------------|-----------------|-----------|---------------|-------------------------|--------------------------------|-------------------------|
| Desired: | Call K27PC-D | Chan D27 | Svc LD | Status LIC | City, State YUMA, AZ | File Number K27PC-D License | Distance |
| Undesireds: | KYPO-LD | D27 | LD | LIC | TACNA, AZ | BLANK0000179279 | 134.8 km |
| | KAZS | D27 | DT | CP | YUMA, AZ | BLANK0000212367 | 62.5 |
| | KPCD-LD | D27- | LD | LIC | SAN FERNANDO, CA | BLANK0000193342 | 303.4 |
| Service area | | Terrain-limited | | IX-free | | Percent IX | |
| 2148.1 | 170,845 | 2053.1 | | 170,589 | 642.7 | 29,876 | 68.69 82.49 |
| 89.1 | 8,903 | 89.1 | | 8,903 | 31.0 | 6,557 | 65.18 26.35 (in Mexico) |
| Undesired | | Total IX | | Unique IX | | Prct Unique IX | |
| KAZS | D27 DT CP | 1410.3 | | 140,713 | 1410.3 | 140,713 | 68.69 82.49 |
| KAZS | D27 DT CP | 58.1 | | 2,346 | 58.1 | 2,346 | 65.18 26.35 (in Mexico) |

TVStudy Analysis - US Stations Only

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: K27PC-D D26F 1.8kw-DA US Only #376, Model: Longley-Rice
Start: 2023.03.22 11:11:43

Study created: 2023.03.22 11:11:43

Study build station data: LMS TV 2023-03-21 #180

Proposal: K27PC-D D26 LD APP YUMA, AZ
File number: K27PC-D D26F 1.8kw-DA US Only
Facility ID: 182419
Station data: User record
Record ID: 375
Country: U.S.

Stations potentially affected by proposal:

| IX | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-----|---------|------|-----|--------|----------------------|-------------------|----------|
| No | K19CX-D | N19 | TX | LIC | YUMA, AZ | BLTT19941212JC | 0.3 km |
| No | KJPO-LD | D25 | LD | LIC | TONOPAH, AZ | BLANK0000151024 | 148.9 |
| No | K25QN-D | D25 | LD | CP | DESERT CENTER, CA | BNPDTL20100514ACT | 140.7 |
| No | K26OD-D | D26 | LD | LIC | GLOBE, AZ | BLANK0000064242 | 331.4 |
| No | K26OK-D | D26 | LD | LIC | LAKE HAVASU CITY, AZ | BLANK0000071722 | 214.5 |
| No | K26GF-D | D26 | LD | LIC | PEACH SPRINGS, AZ | BLDTT20130308ACF | 329.0 |
| Yes | KUTP | D26 | DT | LIC | PHOENIX, AZ | BLCDT20130625AAK | 224.4 |
| No | K26MW-D | D26 | LD | LIC | LUCERNE VALLEY, CA | BLANK0000116236 | 347.8 |
| No | K26PR-D | D26 | LD | LIC | NEEDLES, CA | BLANK0000178666 | 241.0 |
| Yes | KMIR-TV | D26 | DT | LIC | PALM SPRINGS, CA | BLANK0000075143 | 235.8 |
| No | KMRZ-LD | D26 | LD | LIC | POMONA, CA | BLANK0000168080 | 354.6 |
| Yes | KSWB-TV | D26 | DT | LIC | SAN DIEGO, CA | BLANK0000068712 | 243.2 |
| No | KSKJ-CD | D26 | DC | LIC | VAN NUYS, CA | BLANK0000071612 | 385.6 |
| No | KGNL-LD | D26 | LD | LIC | LAS VEGAS, NV | BLANK0000126700 | 369.6 |
| No | KTNV-TV | D26 | DT | APP | LAS VEGAS, NV | BLANK0000145120 | 369.6 |
| No | KASW | D27 | DD | LIC | PHOENIX, AZ | BLANK0000204930 | 224.3 |
| No | KYPO-LD | D27 | LD | LIC | TACNA, AZ | BLANK0000179279 | 134.8 |
| No | KYPO-LD | N27 | TX | LIC | TACNA, AZ | BLTTL20080818AAL | 134.8 |
| Yes | KAZS | D27 | DT | CP | YUMA, AZ | BLANK0000212367 | 62.5 |
| No | DK28FM | N28z | TX | APP | YUMA, AZ | BLTTL20001006AAL | 0.2 |

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D26
Mask: Full Service
Latitude: 32 40 21.00 N (NAD83)
Longitude: 114 20 10.00 W
Height AMSL: 546.6 m
HAAT: 0.0 m
Peak ERP: 1.80 kW
Antenna: ERI ALP8L1-HSOC-26 270.0 deg
Elev Pattn: Generic

50.0 dBu contour:

| Azimuth | ERP | HAAT | Distance |
|---------|----------|---------|----------|
| 0.0 deg | 0.803 kW | 475.3 m | 47.2 km |
| 45.0 | 0.682 | 391.8 | 43.8 |
| 90.0 | 0.823 | 479.5 | 47.5 |
| 135.0 | 0.682 | 390.5 | 43.8 |
| 180.0 | 0.803 | 234.8 | 37.8 |
| 225.0 | 1.44 | 415.9 | 49.0 |
| 270.0 | 1.80 | 458.5 | 51.6 |
| 315.0 | 1.44 | 369.4 | 47.5 |

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 402 m

Distance to Canadian border: 1814.8 km

**Proposal is within coordination distance of Mexican border

Distance to Mexican border: 33.9 km

Conditions at FCC monitoring station: Douglas AZ
Bearing: 105.2 degrees Distance: 459.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 41.9 degrees Distance: 1158.6 km

Study cell size: 1.00 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 BLCDT20130625AAK LIC scenario 1

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|--------------------|-----------|-----------------|-----------|-------------------|---------------|-----------------------|----------------|
| | KUTP | D26 | DT | LIC | PHOENIX, AZ | BLCDT20130625AAK | |
| Undesireds: | K27PC-D | D26 | LD | APP | YUMA, AZ | K27PC-D D26F 1.8kw-DA | 224.4 km |
| | KMSB | D25 | DT | LIC | TUCSON, AZ | BLCDT20050623ABE | 162.0 |
| | KTNV-TV | D26 | DT | APP | LAS VEGAS, NV | BLANK0000145120 | 398.2 |
| | KASW | D27 | DD | LIC | PHOENIX, AZ | BLANK0000204930 | 0.1 |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | Percent New IX |
| 40812.1 | 4,190,712 | 33141.1 | 4,175,090 | 32954.9 | 4,167,099 | 32916.0 4,167,099 | 0.12 0.00 |
| Undesired | | Total IX | | Unique IX, before | | Unique IX, after | |
| K27PC-D D26 LD APP | | 39.9 | 0 | | | 38.9 0 | |
| KMSB D25 DT LIC | | 64.2 | 18 | 64.2 | 18 | 64.2 18 | |
| KTNV-TV D26 DT APP | | 10.9 | 0 | 10.9 | 0 | 10.9 0 | |
| KASW D27 DD LIC | | 111.0 | 7,973 | 111.0 | 7,973 | 110.0 7,973 | |

Interference to BLANK0000075143 LIC scenario 1

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|--------------------|-----------|-----------------|---------|-------------------|------------------|-----------------------|----------------|
| | KMIR-TV | D26 | DT | LIC | PALM SPRINGS, CA | BLANK0000075143 | |
| Undesireds: | K27PC-D | D26 | LD | APP | YUMA, AZ | K27PC-D D26F 1.8kw-DA | 235.8 km |
| | KVEA | D25 | DT | LIC | CORONA, CA | BLANK0000136469 | 155.4 |
| | KUVI-DT | D26 | DT | LIC | BAKERSFIELD, CA | BLANK0000081232 | 273.8 |
| | KSWB-TV | D26 | DT | LIC | SAN DIEGO, CA | BLANK0000068712 | 138.2 |
| | KSKJ-CD | D26 | DC | LIC | VAN NUYS, CA | BLANK0000071612 | 154.8 |
| | KTNV-TV | D26 | DT | APP | LAS VEGAS, NV | BLANK0000145120 | 263.5 |
| | KAZS | D27 | DT | CP | YUMA, AZ | BLANK0000212367 | 174.2 |
| | KVER-CD | D27 | DC | LIC | INDIO, CA | BLANK0000074955 | 0.1 |
| | KPOM-CD | D27 | DC | LIC | ONTARIO, CA | BLANK0000189414 | 154.9 |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | Percent New IX |
| 24922.6 | 2,766,029 | 12562.2 | 739,240 | 12330.4 | 727,910 | 12274.8 727,807 | 0.45 0.01 |
| Undesired | | Total IX | | Unique IX, before | | Unique IX, after | |
| K27PC-D D26 LD APP | | 87.5 | 104 | | | 55.7 103 | |
| KVEA D25 DT LIC | | 50.3 | 6,477 | 26.6 | 1,097 | 26.6 1,097 | |
| KUVI-DT D26 DT LIC | | 2.0 | 0 | 0.0 | 0 | 0.0 0 | |
| KSWB-TV D26 DT LIC | | 92.1 | 9,463 | 51.4 | 3,773 | 45.5 3,772 | |
| KSKJ-CD D26 DC LIC | | 18.9 | 27 | 9.9 | 0 | 6.0 0 | |
| KTNV-TV D26 DT APP | | 71.3 | 613 | 56.3 | 242 | 51.3 242 | |
| KAZS D27 DT CP | | 38.9 | 0 | 38.9 | 0 | 21.9 0 | |
| KVER-CD D27 DC LIC | | 1.0 | 0 | 1.0 | 0 | 1.0 0 | |
| KPOM-CD D27 DC LIC | | 9.9 | 1,069 | 1.0 | 467 | 1.0 467 | |

Interference to BLANK0000075143 LIC scenario 2

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|------------------|-----------------------|----------|
| | KMIR-TV | D26 | DT | LIC | PALM SPRINGS, CA | BLANK0000075143 | |
| Undesireds: | K27PC-D | D26 | LD | APP | YUMA, AZ | K27PC-D D26F 1.8kw-DA | 235.8 km |

| | | | | | | |
|---------|-----|----|-----|-----------------|-----------------|-------|
| KVEA | D25 | DT | LIC | CORONA, CA | BLANK0000136469 | 155.4 |
| KUVI-DT | D26 | DT | LIC | BAKERSFIELD, CA | BLANK0000081232 | 273.8 |
| KSWB-TV | D26 | DT | LIC | SAN DIEGO, CA | BLANK0000068712 | 138.2 |
| KSKJ-CD | D26 | DC | LIC | VAN NUYS, CA | BLANK0000071612 | 154.8 |
| KTNV-TV | D26 | DT | APP | LAS VEGAS, NV | BLANK0000145120 | 263.5 |
| KAZS | D27 | DT | BL | YUMA, AZ | DTVBL776268 | 174.0 |
| KVER-CD | D27 | DC | LIC | INDIO, CA | BLANK0000074955 | 0.1 |
| KPOM-CD | D27 | DC | LIC | ONTARIO, CA | BLANK0000189414 | 154.9 |

| Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX |
|-------------------|-----------------|-----------------|-----------------|----------------|
| 24922.6 2,766,029 | 12562.2 739,240 | 12336.4 727,910 | 12280.7 727,807 | 0.45 0.01 |

| Undesired | Total IX | Unique IX, before | Unique IX, after |
|--------------------|------------|-------------------|------------------|
| K27PC-D D26 LD APP | 87.5 104 | 55.7 103 | |
| KVEA D25 DT LIC | 50.3 6,477 | 26.6 1,097 | |
| KUVI-DT D26 DT LIC | 2.0 0 | 0.0 0 | |
| KSWB-TV D26 DT LIC | 92.1 9,463 | 51.4 3,773 | |
| KSKJ-CD D26 DC LIC | 18.9 27 | 9.9 0 | |
| KTNV-TV D26 DT APP | 71.3 613 | 56.3 242 | |
| KAZS D27 DT BL | 32.9 0 | 32.9 0 | |
| KVER-CD D27 DC LIC | 1.0 0 | 1.0 0 | |
| KPOM-CD D27 DC LIC | 9.9 1,069 | 1.0 467 | |

Interference to BLANK0000068712 LIC scenario 1

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|------------------|-----------------------|----------|
| | KSWB-TV | D26 | DT | LIC | SAN DIEGO, CA | BLANK0000068712 | |
| Undesireds: | K27PC-D | D26 | LD | APP | YUMA, AZ | K27PC-D D26F 1.8kw-DA | 243.2 km |
| | KVEA | D25 | DT | LIC | CORONA, CA | BLANK0000136469 | 199.6 |
| | KMIR-TV | D26 | DT | LIC | PALM SPRINGS, CA | BLANK0000075143 | 138.2 |
| | KSKJ-CD | D26 | DC | LIC | VAN NUYS, CA | BLANK0000071612 | 198.3 |
| | KTNV-TV | D26 | DT | APP | LAS VEGAS, NV | BLANK0000145120 | 400.7 |
| | KVER-CD | D27 | DC | LIC | INDIO, CA | BLANK0000074955 | 138.1 |

| Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX |
|-------------------|-------------------|-------------------|-------------------|-----------------------|
| 21607.6 3,684,151 | 17308.4 3,499,535 | 16650.1 3,420,946 | 16597.3 3,420,892 | 0.32 0.00 |
| 9683.1 1,766,001 | 8239.7 1,685,009 | 8095.6 1,684,767 | 8083.5 1,684,763 | 0.15 0.00 (in Mexico) |

| Undesired | Total IX | Unique IX, before | Unique IX, after |
|--------------------|--------------|-------------------|------------------|
| K27PC-D D26 LD APP | 62.8 54 | 52.8 54 | |
| K27PC-D D26 LD APP | 12.0 4 | 12.0 4 | (in Mexico) |
| KVEA D25 DT LIC | 26.8 13,419 | 3.0 1,034 | |
| KMIR-TV D26 DT LIC | 36.7 0 | 30.7 0 | |
| KMIR-TV D26 DT LIC | 7.0 0 | 3.0 0 | (in Mexico) |
| KSKJ-CD D26 DC LIC | 620.6 77,555 | 594.8 65,170 | |
| KSKJ-CD D26 DC LIC | 141.1 242 | 137.0 242 | (in Mexico) |
| KTNV-TV D26 DT APP | 2.0 0 | 0.0 0 | |
| KVER-CD D27 DC LIC | 2.0 0 | 0.0 0 | |

Interference to BLANK0000212367 CP scenario 1

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|------------------|-----------------------|----------|
| | KAZS | D27 | DT | CP | YUMA, AZ | BLANK0000212367 | |
| Undesireds: | K27PC-D | D26 | LD | APP | YUMA, AZ | K27PC-D D26F 1.8kw-DA | 62.5 km |
| | KMIR-TV | D26 | DT | LIC | PALM SPRINGS, CA | BLANK0000075143 | 174.2 |
| | KASW | D27 | DD | LIC | PHOENIX, AZ | BLANK0000204930 | 259.1 |
| | KVER-CD | D27 | DC | LIC | INDIO, CA | BLANK0000074955 | 174.1 |

| Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX |
|------------------|------------------|------------------|------------------|-----------------------|
| 19377.6 388,463 | 17051.0 387,999 | 16583.4 386,591 | 16453.1 386,134 | 0.79 0.12 |
| 4505.5 1,065,875 | 4499.5 1,065,875 | 4499.5 1,065,875 | 4499.5 1,065,875 | 0.00 0.00 (in Mexico) |

| Undesired | Total IX | Unique IX, before | Unique IX, after |
|--------------------|-------------|-------------------|------------------|
| K27PC-D D26 LD APP | 137.3 474 | 130.3 457 | |
| KMIR-TV D26 DT LIC | 5.0 0 | 0.0 0 | |
| KASW D27 DD LIC | 24.9 28 | 17.9 11 | |
| KVER-CD D27 DC LIC | 442.7 1,380 | 437.8 1,380 | |

Interference to proposal scenario 1

| | | | | | | | |
|-------------|-----------------|-------------|-----------|---------------|-------------------------|--------------------------------------|----------|
| Desired: | Call K27PC-D | Chan D26 | Svc LD | Status APP | City, State YUMA, AZ | File Number K27PC-D D26F 1.8kw-DA | Distance |
| Undesireds: | KMIR-TV | D26 | DT | LIC | PALM SPRINGS, CA | BLANK0000075143 | 235.8 km |
| | KYPO-LD | D27 | LD | LIC | TACNA, AZ | BLANK0000179279 | 134.8 |
| | KAZS | D27 | DT | CP | YUMA, AZ | BLANK0000212367 | 62.5 |

| | | | | | | | |
|--------|--------------|--------|-----------------|--------|---------|------|------------------|
| | Service area | | Terrain-limited | | IX-free | | Percent IX |
| 5957.3 | 197,991 | 5369.5 | 197,962 | 5304.4 | 197,962 | 1.21 | 0.00 |
| 672.0 | 157,783 | 671.0 | 157,783 | 668.0 | 157,783 | 0.45 | 0.00 (in Mexico) |

| | | | | | | |
|--------------------|--|------|----------|------|-----------|-----------------------|
| Undesired | | | Total IX | | Unique IX | Prcnt Unique IX |
| KMIR-TV D26 DT LIC | | 32.1 | 0 | 11.0 | 0 | 0.21 0.00 |
| KAZS D27 DT CP | | 54.1 | 0 | 33.1 | 0 | 0.62 0.00 |
| KAZS D27 DT CP | | 3.0 | 0 | 3.0 | 0 | 0.45 0.00 (in Mexico) |

TVStudy Analysis - US & Mexican Stations

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: K27PC-D D26F 1.8kw-DA US & Mexico #377, Model: Longley-Rice
Start: 2023.03.22 11:20:03

Study created: 2023.03.22 11:20:03

[Note: Default Template Used for Interference Analysis]

Study build station data: LMS TV 2023-03-21 #180

Proposal: K27PC-D D26 LD APP YUMA, AZ
File number: K27PC-D D26F 1.8kw-DA US & Mexico
Facility ID: 182419
Station data: User record
Record ID: 376
Country: U.S.

Search options:
Non-U.S. records included

Stations potentially affected by proposal:

| IX | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-----|------------|------|-----|--------|--------------------------|----------------------|----------|
| No | K19CX-D | N19 | TX | LIC | YUMA, AZ | BLTT19941212JC | 0.3 km |
| No | KJPO-LD | D25 | LD | LIC | TONOPAH, AZ | BLANK0000151024 | 148.9 |
| No | K25QN-D | D25 | LD | CP | DESERT CENTER, CA | BNPDTL20100514ACT | 140.7 |
| No | K26OD-D | D26 | LD | LIC | GLOBE, AZ | BLANK0000064242 | 331.4 |
| No | K26OK-D | D26 | LD | LIC | LAKE HAVASU CITY, AZ | BLANK0000071722 | 214.5 |
| No | K26GF-D | D26 | LD | LIC | PEACH SPRINGS, AZ | BLDTT20130308ACF | 329.0 |
| Yes | KUTP | D26 | DT | LIC | PHOENIX, AZ | BLCDT20130625AAK | 224.4 |
| No | K26MW-D | D26 | LD | LIC | LUCERNE VALLEY, CA | BLANK0000116236 | 347.8 |
| No | K26PR-D | D26 | LD | LIC | NEEDLES, CA | BLANK0000178666 | 241.0 |
| Yes | KMRZ-TV | D26 | DT | LIC | PALM SPRINGS, CA | BLANK0000075143 | 235.8 |
| No | KMRZ-LD | D26 | LD | LIC | POMONA, CA | BLANK0000168080 | 354.6 |
| Yes | KSWB-TV | D26 | DT | LIC | SAN DIEGO, CA | BLANK0000068712 | 243.2 |
| No | KSKJ-CD | D26 | DC | LIC | VAN NUYS, CA | BLANK0000071612 | 385.6 |
| No | KGNQ-LD | D26 | LD | LIC | LAS VEGAS, NV | BLANK0000126700 | 369.6 |
| No | KTNV-TV | D26 | DT | APP | LAS VEGAS, NV | BLANK0000145120 | 369.6 |
| No | KASW | D27 | DD | LIC | PHOENIX, AZ | BLANK0000204930 | 224.3 |
| No | KYPO-LD | D27 | LD | LIC | TACNA, AZ | BLANK0000179279 | 134.8 |
| No | KYPO-LD | N27 | TX | LIC | TACNA, AZ | BLTTL20080818AAL | 134.8 |
| Yes | KAZS | D27 | DT | CP | YUMA, AZ | BLANK0000212367 | 62.5 |
| No | DK28FM | N28z | TX | APP | YUMA, AZ | BLTTL20001006AAL | 0.2 |
| No | CADENATRES | D25 | DT | LIC | SAN QUINTIN SAN TELM, BN | BLANKBPFS20160524AAX | 270.3 |
| No | CADENATRES | D25 | DT | LIC | PUERTO PENASCO, SO | BLANKBPFS20130710AAD | 169.6 |
| No | CADENATRES | D26 | DT | LIC | AGUA PRIETA, SO | BLANKBPFS20160525ACB | 476.4 |
| No | XHNON | D26 | DT | LIC | NOGALES, SO | BLANKBPFS20160315ABG | 352.2 |

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D26
Mask: Full Service
Latitude: 32 40 21.00 N (NAD83)
Longitude: 114 20 10.00 W
Height AMSL: 546.6 m
HAAT: 0.0 m
Peak ERP: 1.80 kW
Antenna: ERI ALP8L1-HSOC-26 270.0 deg
Elev Pattn: Generic

50.0 dBu contour:

| Azimuth | ERP | HAAT | Distance |
|---------|----------|---------|----------|
| 0.0 deg | 0.803 kW | 475.3 m | 47.2 km |
| 45.0 | 0.682 | 391.8 | 43.8 |
| 90.0 | 0.823 | 479.5 | 47.5 |
| 135.0 | 0.682 | 390.5 | 43.8 |
| 180.0 | 0.803 | 234.8 | 37.8 |

| | | | |
|-------|------|-------|------|
| 225.0 | 1.44 | 415.9 | 49.0 |
| 270.0 | 1.80 | 458.5 | 51.6 |
| 315.0 | 1.44 | 369.4 | 47.5 |

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 402 m

Distance to Canadian border: 1814.8 km

**Proposal is within coordination distance of Mexican border
Distance to Mexican border: 33.9 km

Conditions at FCC monitoring station: Douglas AZ
Bearing: 105.2 degrees Distance: 459.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 41.9 degrees Distance: 1158.6 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 BLCDT20130625AAK LIC scenario 1

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance | | |
|--------------------|---------|-----------------|-----|----------------------|-------------------|-----------------------|----------------|--|--|
| | KUTP | D26 | DT | LIC | PHOENIX, AZ | BLCDT20130625AAK | | | |
| Undesireds: | K27PC-D | D26 | LD | APP | YUMA, AZ | K27PC-D D26F 1.8kw-DA | 224.4 km | | |
| | KMSB | D25 | DT | LIC | TUCSON, AZ | BLCDT20050623ABE | 162.0 | | |
| | KTNV-TV | D26 | DT | APP | LAS VEGAS, NV | BLANK0000145120 | 398.2 | | |
| | KASW | D27 | DD | LIC | PHOENIX, AZ | BLANK0000204930 | 0.1 | | |
| | XHNON | D26 | DT | LIC | NOGALES, SO | BLANKBFFS20160315ABG | 246.2 | | |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | Percent New IX | | |
| 40766.7 | | 4,191,015 | | 33142.5 4,176,014 | | 32881.8 4,149,386 | 0.15 0.00 | | |
| Undesired | | | | Total IX | Unique IX, before | Unique IX, after | | | |
| K27PC-D D26 LD APP | | | | 52.0 0 | 48.0 0 | | | | |
| KMSB D25 DT LIC | | | | 64.4 18 | 64.4 18 | | | | |
| KTNV-TV D26 DT APP | | | | 24.0 0 | 24.0 0 | | | | |
| KASW D27 DD LIC | | | | 116.1 26,610 | 116.1 26,610 | | | | |
| XHNON D26 DT LIC | | | | 8.0 0 | 8.0 0 | | | | |

Interference to BLANK0000075143 LIC scenario 1

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance | | |
|--------------------|---------|-----------------|-----|--------------------|-------------------|-----------------------|----------------|--|--|
| | KMIR-TV | D26 | DT | LIC | PALM SPRINGS, CA | BLANK0000075143 | | | |
| Undesireds: | K27PC-D | D26 | LD | APP | YUMA, AZ | K27PC-D D26F 1.8kw-DA | 235.8 km | | |
| | KVEA | D25 | DT | LIC | CORONA, CA | BLANK0000136469 | 155.4 | | |
| | KUVI-DT | D26 | DT | LIC | BAKERSFIELD, CA | BLANK0000081232 | 273.8 | | |
| | KSWB-TV | D26 | DT | LIC | SAN DIEGO, CA | BLANK0000068712 | 138.2 | | |
| | KSKJ-CD | D26 | DC | LIC | VAN NUYS, CA | BLANK0000071612 | 154.8 | | |
| | KTNV-TV | D26 | DT | APP | LAS VEGAS, NV | BLANK0000145120 | 263.5 | | |
| | KAZS | D27 | DT | CP | YUMA, AZ | BLANK0000212367 | 174.2 | | |
| | KPOM-CD | D27 | DC | LIC | ONTARIO, CA | BLANK0000189414 | 154.9 | | |
| | XHEXT | D25 | DT | BL | MEXICALI, BN | DTVBL704637 | 164.8 | | |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | Percent New IX | | |
| 24915.7 | | 2,760,914 | | 12602.4 730,764 | | 12286.3 716,950 | 0.42 0.03 | | |
| Undesired | | | | Total IX | Unique IX, before | Unique IX, after | | | |
| K27PC-D D26 LD APP | | | | 95.9 207 | 51.9 206 | | | | |
| KVEA D25 DT LIC | | | | 40.1 8,838 | 8.0 335 | | | | |
| KUVI-DT D26 DT LIC | | | | 12.0 0 | 0.0 0 | | | | |
| KSWB-TV D26 DT LIC | | | | 108.1 12,535 | 52.1 4,037 | | | | |
| KSKJ-CD D26 DC LIC | | | | 28.0 480 | 12.0 0 | | | | |

| | | | | | | |
|--------------------|-------|-----|------|-----|------|-----|
| KTNV-TV D26 DT APP | 100.0 | 499 | 68.0 | 463 | 68.0 | 463 |
| KAZS D27 DT CP | 48.0 | 0 | 44.0 | 0 | 24.0 | 0 |
| KPOM-CD D27 DC LIC | 16.0 | 490 | 0.0 | 0 | 0.0 | 0 |
| XHEXT D25 DT BL | 4.0 | 0 | 4.0 | 0 | 0.0 | 0 |

Interference to BLANK0000075143 LIC scenario 2

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|------------------|-----------------------|----------|
| | KMIR-TV | D26 | DT | LIC | PALM SPRINGS, CA | BLANK0000075143 | |
| Undesireds: | K27PC-D | D26 | LD | APP | YUMA, AZ | K27PC-D D26F 1.8kw-DA | 235.8 km |
| | KVEA | D25 | DT | LIC | CORONA, CA | BLANK0000136469 | 155.4 |
| | KUVI-DT | D26 | DT | LIC | BAKERSFIELD, CA | BLANK0000081232 | 273.8 |
| | KSWB-TV | D26 | DT | LIC | SAN DIEGO, CA | BLANK0000068712 | 138.2 |
| | KSKJ-CD | D26 | DC | LIC | VAN NUYS, CA | BLANK0000071612 | 154.8 |
| | KTNV-TV | D26 | DT | APP | LAS VEGAS, NV | BLANK0000145120 | 263.5 |
| | KAZS | D27 | DT | BL | YUMA, AZ | DTVBL776268 | 174.0 |
| | KPOM-CD | D27 | DC | LIC | ONTARIO, CA | BLANK0000189414 | 154.9 |
| | XHEXT | D25 | DT | BL | MEXICALI, BN | DTVBL704637 | 164.8 |

| Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX |
|--------------|-----------------|-----------------|----------------|----------------|
| 24915.7 | 2,760,914 | 12602.4 | 730,764 | 12338.2 |
| | | | 717,156 | 12290.3 |
| | | | | 716,950 |
| | | | | 0.39 |
| | | | | 0.03 |

| Undesired | Total IX | Unique IX, before | Unique IX, after |
|--------------------|----------|-------------------|------------------|
| K27PC-D D26 LD APP | 95.9 | 207 | 47.9 |
| KVEA D25 DT LIC | 40.1 | 8,838 | 8.0 |
| KUVI-DT D26 DT LIC | 12.0 | 0 | 0.0 |
| KSWB-TV D26 DT LIC | 108.1 | 12,535 | 52.1 |
| KSKJ-CD D26 DC LIC | 28.0 | 480 | 12.0 |
| KTNV-TV D26 DT APP | 100.0 | 499 | 68.0 |
| KAZS D27 DT BL | 48.0 | 0 | 44.0 |
| KPOM-CD D27 DC LIC | 16.0 | 490 | 0.0 |
| XHEXT D25 DT BL | 4.0 | 0 | 4.0 |

Interference to BLANK0000068712 LIC scenario 1

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|------------------|-----------------------|----------|
| | KSWB-TV | D26 | DT | LIC | SAN DIEGO, CA | BLANK0000068712 | |
| Undesireds: | K27PC-D | D26 | LD | APP | YUMA, AZ | K27PC-D D26F 1.8kw-DA | 243.2 km |
| | KVEA | D25 | DT | LIC | CORONA, CA | BLANK0000136469 | 199.6 |
| | KUVI-DT | D26 | DT | LIC | BAKERSFIELD, CA | BLANK0000081232 | 347.1 |
| | KMIR-TV | D26 | DT | LIC | PALM SPRINGS, CA | BLANK0000075143 | 138.2 |
| | KSKJ-CD | D26 | DC | LIC | VAN NUYS, CA | BLANK0000071612 | 198.3 |
| | KTNV-TV | D26 | DT | APP | LAS VEGAS, NV | BLANK0000145120 | 400.7 |
| | KVER-CD | D27 | DC | LIC | INDIO, CA | BLANK0000074955 | 138.1 |
| | KPOM-CD | D27 | DC | LIC | ONTARIO, CA | BLANK0000189414 | 198.3 |
| | XHEXT | D25 | DT | BL | MEXICALI, BN | DTVBL704637 | 135.8 |
| | XHSFB | D26 | DT | BL | SAN FELIPE, BN | DTVBL704644 | 271.8 |
| | XHBJ | D27 | DT | BL | TIJUANA, BN | DTVBL704655 | 23.7 |

| Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX |
|--------------|-----------------|-----------------|----------------|----------------|
| 23329.0 | 3,724,567 | 18459.2 | 3,519,922 | 17567.6 |
| | | | | 3,440,981 |
| | | | | 17547.6 |
| | | | | 3,440,981 |
| | | | | 0.11 |
| | | | | 0.00 |
| 11351.5 | 1,768,773 | 9716.5 | 1,656,226 | 9494.4 |
| | | | | 1,618,843 |
| | | | | 9490.3 |
| | | | | 1,618,843 |
| | | | | 0.04 |
| | | | | 0.00 |

| Undesired | Total IX | Unique IX, before | Unique IX, after |
|--------------------|----------|-------------------|------------------|
| K27PC-D D26 LD APP | 32.0 | 0 | 20.0 |
| K27PC-D D26 LD APP | 12.1 | 0 | 4.0 |
| KVEA D25 DT LIC | 28.1 | 7,953 | 0.0 |
| KUVI-DT D26 DT LIC | 8.0 | 2,381 | 0.0 |
| KMIR-TV D26 DT LIC | 36.1 | 0 | 16.1 |
| KMIR-TV D26 DT LIC | 12.2 | 0 | 0.0 |
| KSKJ-CD D26 DC LIC | 843.4 | 78,941 | 795.3 |
| KSKJ-CD D26 DC LIC | 181.9 | 290 | 165.7 |
| KTNV-TV D26 DT APP | 12.0 | 0 | 0.0 |
| KVER-CD D27 DC LIC | 8.0 | 0 | 0.0 |
| KPOM-CD D27 DC LIC | 4.0 | 0 | 0.0 |
| XHEXT D25 DT BL | 4.0 | 0 | 4.0 |
| XHEXT D25 DT BL | 8.0 | 0 | 8.0 |
| XHSFB D26 DT BL | 4.0 | 0 | 4.0 |
| XHBJ D27 DT BL | 16.1 | 0 | 16.1 |
| XHBJ D27 DT BL | 36.2 | 37,093 | 32.2 |

Interference to BLANK0000212367 CP scenario 1

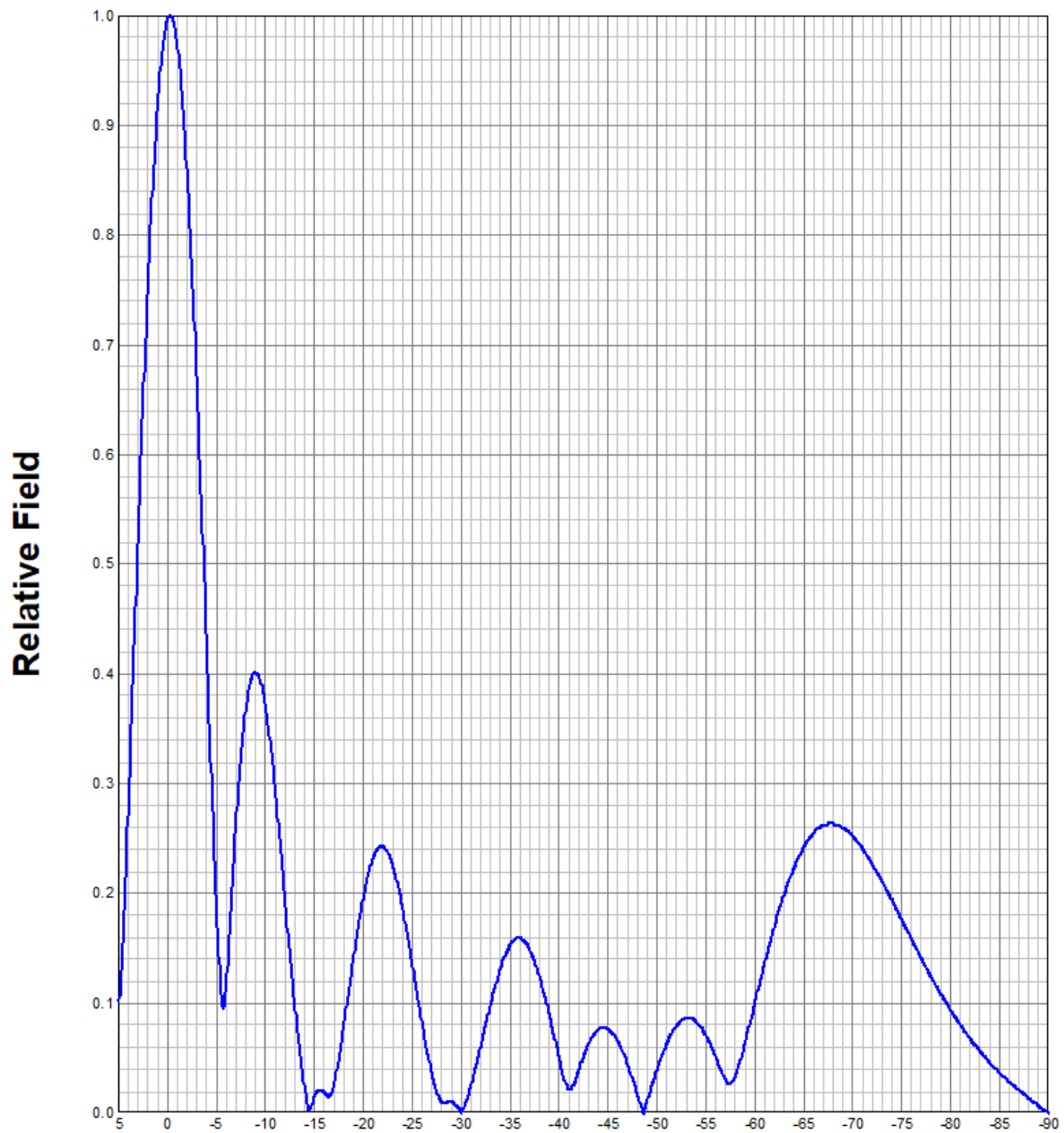
| | | | | | | | | | |
|--------------|--------------|-----------------|-----------|-------------------|-------------------------|--------------------------------|----------|----------------|-----------------------|
| Desired: | Call KAZS | Chan D27 | Svc DT | Status CP | City, State YUMA, AZ | File Number BLANK0000212367 | Distance | | |
| Undesireds: | K27PC-D | D26 | LD | APP | YUMA, AZ | K27PC-D D26F 1.8kw-DA | 62.5 km | | |
| | KMIR-TV | D26 | DT | LIC | PALM SPRINGS, CA | BLANK0000075143 | 174.2 | | |
| | KASW | D27 | DD | LIC | PHOENIX, AZ | BLANK0000204930 | 259.1 | | |
| | KVER-CD | D27 | DC | LIC | INDIO, CA | BLANK0000074955 | 174.1 | | |
| | XHBJ | D27 | DT | BL | TIJUANA, BN | DTVBL704655 | 215.5 | | |
| | XHAQ | D28 | DT | LIC | MEXICALI, BN | BLANKBPFS20050721AFZ | 78.6 | | |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | | Percent New IX | |
| 19368.9 | 388,472 | 17054.1 | | 388,239 | 16479.2 | 386,726 | 16350.5 | 386,197 | 0.78 0.14 |
| 4533.6 | 1,066,058 | 4529.6 | | 1,066,058 | 4465.3 | 1,029,474 | 4465.3 | 1,029,474 | 0.00 0.00 (in Mexico) |
| Undesired | | Total IX | | Unique IX, before | | Unique IX, after | | | |
| K27PC-D | D26 LD APP | 148.7 | | 539 | | | 128.6 | 529 | |
| KMIR-TV | D26 DT LIC | 4.0 | | 0 | 0.0 | 0 | 0.0 | 0 | |
| KASW | D27 DD LIC | 60.2 | | 10 | 52.1 | 10 | 44.1 | 0 | |
| KVER-CD | D27 DC LIC | 451.0 | | 1,503 | 415.0 | 1,503 | 415.0 | 1,503 | |
| XHBJ | D27 DT BL | 8.0 | | 0 | 0.0 | 0 | 0.0 | 0 | |
| XHAQ | D28 DT LIC | 91.7 | | 0 | 71.8 | 0 | 71.8 | 0 | |
| XHAQ | D28 DT LIC | 64.3 | | 36,584 | 64.3 | 36,584 | 64.3 | 36,584 | (in Mexico) |

Interference to proposal scenario 1

| | | | | | | | |
|--------------|-----------------|-----------------|-----------|---------------|-------------------------|--------------------------------------|-------------------------|
| Desired: | Call K27PC-D | Chan D26 | Svc LD | Status APP | City, State YUMA, AZ | File Number K27PC-D D26F 1.8kw-DA | Distance |
| Undesireds: | KMIR-TV | D26 | DT | LIC | PALM SPRINGS, CA | BLANK0000075143 | 235.8 km |
| | KYPO-LD | D27 | LD | LIC | TACNA, AZ | BLANK0000179279 | 134.8 |
| | KAZS | D27 | DT | CP | YUMA, AZ | BLANK0000212367 | 62.5 |
| Service area | | Terrain-limited | | | IX-free | Percent IX | |
| 5924.3 | 197,991 | 5353.9 | | 197,972 | 5277.6 | 197,944 | 1.43 0.01 |
| 689.5 | 161,139 | 689.5 | | 161,139 | 685.5 | 161,139 | 0.58 0.00 (in Mexico) |
| Undesired | | | | Total IX | Unique IX | Prcnt Unique IX | |
| KMIR-TV | D26 | DT | LIC | 40.1 | 28 | 12.1 | 28 0.23 0.01 |
| KAZS | D27 | DT | CP | 64.3 | 0 | 36.2 | 0 0.68 0.00 |
| KAZS | D27 | DT | CP | 4.0 | 0 | 4.0 | 0 0.58 0.00 (in Mexico) |

ELEVATION PATTERN

| | | | | |
|--------------|---------|------|---------------|------------|
| Type: | ALP8L1 | | Channel: | 26 |
| Directivity: | Numeric | dBd | Location: | |
| Main Lobe: | 9.05 | 9.57 | Beam Tilt: | -0.25 |
| Horizontal: | 9.00 | 9.54 | Polarization: | Horizontal |



Preliminary, subject to final design and review.