

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Bak17d8kwCL1469at130T, Model: Longley-Rice

Start: 2021.05.27 16:59:03

Study created: 2021.05.27 16:59:03

Study build station data: LMS TV 2021-05-25

Proposal: K17LX-D D17 LD APP BAKERSFIELD, CA

Facility ID: 130071

Station data: User record

Record ID: 2318

Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

| IX | Call    | Chan | Svc | Status | City, State          | File Number       | Distance |
|----|---------|------|-----|--------|----------------------|-------------------|----------|
| No | KFVD-LP | N15z | TX  | LIC    | PORTERVILLE, CA      | BLTT19891122JU    | 98.9 km  |
| No | KHSC-LD | D16  | LD  | LIC    | FRESNO, CA           | BLDTL20140811ACM  | 182.1    |
| No | K16JW-D | D16  | LD  | LIC    | RIDGECREST, CA       | BLDTT20120309ABV  | 137.9    |
| No | K16FC-D | D16  | LD  | LIC    | SAN LUIS OBISPO, CA  | BLDTT20100510AWS  | 131.8    |
| No | K17LW-D | D17  | LD  | CP     | BUTTONWILLOW, CA     | BNPDTL20100514ABZ | 17.8     |
| No | K17JI-D | D17  | DC  | LIC    | FRESNO, CA           | BLANK0000124967   | 144.6    |
| No | KLDF-CD | D17+ | DC  | LIC    | LOMPOC, CA           | BLANK0000001615   | 137.4    |
| No | KLDF-CD | D17+ | DC  | CP     | LOMPOC, CA           | BLANK0000127525   | 137.4    |
| No | K26MW-D | N17  | TX  | LIC    | LUCERNE VALLEY, CA   | BLTT20120112AFA   | 238.4    |
| No | KODG-LP | D17  | LD  | LIC    | PALM SPRINGS, CA     | BLANK0000022353   | 323.6    |
| No | KODG-LP | N17z | TX  | LIC    | PALM SPRINGS, CA     | BLTTL20001219ABP  | 328.1    |
| No | K17GD-D | D17  | DC  | LIC    | PASO ROBLES, CA      | BLANK0000001602   | 140.4    |
| No | KUAN-LD | D17  | LD  | LIC    | POWAY, ETC., CA      | BLANK0000068682   | 370.1    |
| No | K17HY-D | D17  | LD  | LIC    | RIDGECREST, ETC., CA | BLDTT20090622AAJ  | 137.9    |
| No | KNSD    | D17  | DT  | LIC    | SAN DIEGO, CA        | BLANK0000068597   | 370.1    |
| No | K17KP-D | D17  | LD  | CP     | SAN LUIS OBISPO, CA  | BNPDTL20100423AAH | 124.9    |
| No | KSBB-CD | D17  | DC  | LIC    | SANTA BARBARA, CA    | BLANK0000078274   | 123.9    |
| No | KSBB-CD | D17  | DC  | LIC    | SANTA BARBARA, CA    | BLANK0000078400   | 123.9    |

|     |         |      |    |     |                      |                  |       |
|-----|---------|------|----|-----|----------------------|------------------|-------|
| No  | K17GJ   | D17  | LD | LIC | Twentynine Palms, CA | BLANK0000004553  | 333.2 |
| No  | K17GJ   | N17- | TX | LIC | Twentynine Palms, CA | BLTT20080902AED  | 301.9 |
| No  | K17CL-D | D17  | LD | LIC | PAHRUMP, NV          | BLDTT20120510ACN | 303.0 |
| No  | K17FR-D | D17  | LD | LIC | WALKER LAKE, NV      | BLDTT20120229ABR | 354.2 |
| Yes | K18HD-D | D18  | LD | LIC | BAKERSFIELD, CA      | BLDTL20130128ACY | 42.1  |
| No  | KSCI    | D18  | DT | LIC | LONG BEACH, CA       | BLANK0000055430  | 172.2 |
| Yes | KSCI    | D18  | DT | CP  | LONG BEACH, CA       | BLANK0000129067  | 171.2 |
| No  | K18MP-D | D18  | LD | LIC | RIDGECREST, CA       | BLANK0000068886  | 137.8 |
| No  | KFAZ-CA | D18  | DC | LIC | VISALIA, CA          | BLANK0000001548  | 144.6 |
| No  | K24GS   | N24+ | TX | LIC | BAKERSFIELD, CA      | BLTTL20050118ADI | 16.2  |

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D17  
 Mask: Stringent  
 Latitude: 35 26 45.40 N (NAD83)  
 Longitude: 119 12 19.10 W  
 Height AMSL: 116.0 m  
 HAAT: 0.0 m  
 Peak ERP: 8.00 kW  
 Antenna: KAT-CL-1469B (ID 1007708) 130.0 deg  
 Elev Pattn: Generic

49.0 dBu contour:

| Azimuth | ERP      | HAAT    | Distance |
|---------|----------|---------|----------|
| 0.0 deg | 0.000 kW | -12.3 m | 3.2 km   |
| 45.0    | 0.000    | -37.5   | 3.2      |
| 90.0    | 1.04     | -24.2   | 19.1     |
| 135.0   | 7.58     | 3.3     | 28.2     |
| 180.0   | 0.059    | 12.0    | 9.3      |
| 225.0   | 0.000    | 18.8    | 3.2      |
| 270.0   | 0.000    | 19.3    | 3.2      |
| 315.0   | 0.000    | 10.0    | 3.2      |

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m    Computed HAAT: -1 m

Distance to Canadian border: 1464.4 km

Distance to Mexican border: 355.7 km

Conditions at FCC monitoring station: Livermore CA  
Bearing: 318.8 degrees    Distance: 340.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 62.9 degrees    Distance: 1329.2 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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%

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Interference to BLDTL20130128ACY LIC scenario 1

|             | Call    | Chan | Svc | Status | City, State       | File Number       | Distance |
|-------------|---------|------|-----|--------|-------------------|-------------------|----------|
| Desired:    | K18HD-D | D18  | LD  | LIC    | BAKERSFIELD, CA   | BLDTL20130128ACY  |          |
| Undesireds: | K17LX-D | D17  | LD  | APP    | BAKERSFIELD, CA   |                   | 42.1 km  |
|             | K17LW-D | D17  | LD  | CP     | BUTTONWILLOW, CA  | BNPDTL20100514ABZ | 59.4     |
|             | KLDF-CD | D17+ | DC  | LIC    | LOMPOC, CA        | BLANK0000001615   | 173.4    |
|             | KSBB-CD | D17  | DC  | LIC    | SANTA BARBARA, CA | BLANK0000078274   | 144.3    |
|             | KSCI    | D18  | DT  | LIC    | LONG BEACH, CA    | BLANK0000055430   | 149.5    |

|         |     |    |     |                 |                  |       |
|---------|-----|----|-----|-----------------|------------------|-------|
| KFAZ-CA | D18 | DC | LIC | VISALIA, CA     | BLANK0000001548  | 153.3 |
| KBBV-CD | D19 | DC | LIC | BAKERSFIELD, CA | BLDTA20110930BHC | 13.6  |

|              |         |                 |         |                 |         |                |         |                |
|--------------|---------|-----------------|---------|-----------------|---------|----------------|---------|----------------|
| Service area |         | Terrain-limited |         | IX-free, before |         | IX-free, after |         | Percent New IX |
| 6297.5       | 643,261 | 5987.4          | 639,400 | 5913.9          | 637,682 | 5911.9         | 637,603 | 0.03 0.01      |

|                    |      |          |      |                   |      |                  |
|--------------------|------|----------|------|-------------------|------|------------------|
| Undesired          |      | Total IX |      | Unique IX, before |      | Unique IX, after |
| K17LX-D D17 LD APP | 2.0  | 79       |      |                   | 2.0  | 79               |
| K17LW-D D17 LD CP  | 10.9 | 12       | 10.9 | 12                | 10.9 | 12               |
| KFAZ-CA D18 DC LIC | 3.0  | 0        | 0.0  | 0                 | 0.0  | 0                |
| KBBV-CD D19 DC LIC | 62.6 | 1,706    | 59.6 | 1,706             | 59.6 | 1,706            |

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Interference to BLDTL20130128ACY LIC scenario 2

|             |         |      |     |        |                   |                   |          |
|-------------|---------|------|-----|--------|-------------------|-------------------|----------|
|             | Call    | Chan | Svc | Status | City, State       | File Number       | Distance |
| Desired:    | K18HD-D | D18  | LD  | LIC    | BAKERSFIELD, CA   | BLDTL20130128ACY  |          |
| Undesireds: | K17LX-D | D17  | LD  | APP    | BAKERSFIELD, CA   |                   | 42.1 km  |
|             | K17LW-D | D17  | LD  | CP     | BUTTONWILLOW, CA  | BNPDTL20100514ABZ | 59.4     |
|             | KLDF-CD | D17+ | DC  | LIC    | LOMPOC, CA        | BLANK0000001615   | 173.4    |
|             | KSBB-CD | D17  | DC  | LIC    | SANTA BARBARA, CA | BLANK0000078274   | 144.3    |
|             | KSCI    | D18  | DT  | CP     | LONG BEACH, CA    | BLANK0000129067   | 148.4    |
|             | KFAZ-CA | D18  | DC  | LIC    | VISALIA, CA       | BLANK0000001548   | 153.3    |
|             | KBBV-CD | D19  | DC  | LIC    | BAKERSFIELD, CA   | BLDTA20110930BHC  | 13.6     |

|              |         |                 |         |                 |         |                |         |                |
|--------------|---------|-----------------|---------|-----------------|---------|----------------|---------|----------------|
| Service area |         | Terrain-limited |         | IX-free, before |         | IX-free, after |         | Percent New IX |
| 6297.5       | 643,261 | 5987.4          | 639,400 | 5912.9          | 637,682 | 5910.9         | 637,603 | 0.03 0.01      |

|                    |      |          |      |                   |      |                  |
|--------------------|------|----------|------|-------------------|------|------------------|
| Undesired          |      | Total IX |      | Unique IX, before |      | Unique IX, after |
| K17LX-D D17 LD APP | 2.0  | 79       |      |                   | 2.0  | 79               |
| K17LW-D D17 LD CP  | 10.9 | 12       | 10.9 | 12                | 10.9 | 12               |
| KSCI D18 DT CP     | 3.0  | 0        | 1.0  | 0                 | 1.0  | 0                |
| KFAZ-CA D18 DC LIC | 3.0  | 0        | 0.0  | 0                 | 0.0  | 0                |
| KBBV-CD D19 DC LIC | 62.6 | 1,706    | 57.6 | 1,706             | 57.6 | 1,706            |

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Interference to BLDTL20130128ACY LIC scenario 3

|             | Call    | Chan | Svc | Status | City, State       | File Number       | Distance |
|-------------|---------|------|-----|--------|-------------------|-------------------|----------|
| Desired:    | K18HD-D | D18  | LD  | LIC    | BAKERSFIELD, CA   | BLDTL20130128ACY  |          |
| Undesireds: | K17LX-D | D17  | LD  | APP    | BAKERSFIELD, CA   |                   | 42.1 km  |
|             | K17LW-D | D17  | LD  | CP     | BUTTONWILLOW, CA  | BNPDTL20100514ABZ | 59.4     |
|             | KLDF-CD | D17+ | DC  | LIC    | LOMPOC, CA        | BLANK0000001615   | 173.4    |
|             | KSBB-CD | D17  | DC  | LIC    | SANTA BARBARA, CA | BLANK00000078274  | 144.3    |
|             | KSCI    | D18  | DT  | LIC    | LONG BEACH, CA    | BLANK00000055430  | 149.5    |
|             | KFAZ-CA | D18  | DC  | LIC    | VISALIA, CA       | BLANK0000001548   | 153.3    |
|             | KBBV-CD | D19  | DC  | CP     | BAKERSFIELD, CA   | BLANK00000035842  | 0.1      |

| Service area   | Terrain-limited | IX-free, before | IX-free, after | Percent New IX |
|----------------|-----------------|-----------------|----------------|----------------|
| 6297.5 643,261 | 5987.4 639,400  | 5602.4 639,217  | 5600.5 639,138 | 0.04 0.01      |

| Undesired               | Total IX | Unique IX, before | Unique IX, after |
|-------------------------|----------|-------------------|------------------|
| K17LX-D D17 LD APP 2.0  | 79       | 2.0 79            |                  |
| K17LW-D D17 LD CP 10.9  | 12       | 10.9 12           |                  |
| KFAZ-CA D18 DC LIC 3.0  | 0        | 0.0 0             |                  |
| KBBV-CD D19 DC CP 374.1 | 171      | 371.1 171         |                  |

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Interference to BLDTL20130128ACY LIC scenario 4

|             | Call    | Chan | Svc | Status | City, State       | File Number       | Distance |
|-------------|---------|------|-----|--------|-------------------|-------------------|----------|
| Desired:    | K18HD-D | D18  | LD  | LIC    | BAKERSFIELD, CA   | BLDTL20130128ACY  |          |
| Undesireds: | K17LX-D | D17  | LD  | APP    | BAKERSFIELD, CA   |                   | 42.1 km  |
|             | K17LW-D | D17  | LD  | CP     | BUTTONWILLOW, CA  | BNPDTL20100514ABZ | 59.4     |
|             | KLDF-CD | D17+ | DC  | LIC    | LOMPOC, CA        | BLANK0000001615   | 173.4    |
|             | KSBB-CD | D17  | DC  | LIC    | SANTA BARBARA, CA | BLANK00000078274  | 144.3    |
|             | KSCI    | D18  | DT  | CP     | LONG BEACH, CA    | BLANK00000129067  | 148.4    |
|             | KFAZ-CA | D18  | DC  | LIC    | VISALIA, CA       | BLANK0000001548   | 153.3    |
|             | KBBV-CD | D19  | DC  | CP     | BAKERSFIELD, CA   | BLANK00000035842  | 0.1      |

| Service area   | Terrain-limited | IX-free, before | IX-free, after | Percent New IX |
|----------------|-----------------|-----------------|----------------|----------------|
| 6297.5 643,261 | 5987.4 639,400  | 5599.4 639,217  | 5597.5 639,138 | 0.04 0.01      |

|                    |       |          |                   |     |                  |     |
|--------------------|-------|----------|-------------------|-----|------------------|-----|
| Undesired          |       | Total IX | Unique IX, before |     | Unique IX, after |     |
| K17LX-D D17 LD APP | 2.0   | 79       |                   |     | 2.0              | 79  |
| K17LW-D D17 LD CP  | 10.9  | 12       | 10.9              | 12  | 10.9             | 12  |
| KSCI D18 DT CP     | 3.0   | 0        | 3.0               | 0   | 3.0              | 0   |
| KFAZ-CA D18 DC LIC | 3.0   | 0        | 0.0               | 0   | 0.0              | 0   |
| KBBV-CD D19 DC CP  | 374.1 | 171      | 371.1             | 171 | 371.1            | 171 |

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Interference to BLANK0000129067 CP scenario 1

|             | Call    | Chan | Svc | Status | City, State        | File Number      | Distance |
|-------------|---------|------|-----|--------|--------------------|------------------|----------|
| Desired:    | KSCI    | D18  | DT  | CP     | LONG BEACH, CA     | BLANK0000129067  |          |
| Undesireds: | K17LX-D | D17  | LD  | APP    | BAKERSFIELD, CA    |                  | 171.2 km |
|             | KLDF-CD | D17+ | DC  | LIC    | LOMPOC, CA         | BLANK0000001615  | 225.8    |
|             | KNSD    | D17  | DT  | LIC    | SAN DIEGO, CA      | BLANK00000068597 | 199.3    |
|             | KSBB-CD | D17  | DC  | LIC    | SANTA BARBARA, CA  | BLANK00000078274 | 152.4    |
|             | KPSP-CD | D18  | DC  | LIC    | CATHEDRAL CITY, CA | BLANK00000075036 | 155.2    |
|             | KUSI-TV | D18  | DT  | LIC    | SAN DIEGO, CA      | BLANK00000005158 | 199.3    |
|             | KFAZ-CA | D18  | DC  | LIC    | VISALIA, CA        | BLANK00000001548 | 301.3    |
|             | KBBV-CD | D19  | DC  | LIC    | BAKERSFIELD, CA    | BLDTA20110930BHC | 144.9    |
|             | KPBS    | D19  | DT  | LIC    | SAN DIEGO, CA      | BLANK00000069249 | 199.3    |

|                    |                    |                    |  |                    |  |                |      |
|--------------------|--------------------|--------------------|--|--------------------|--|----------------|------|
| Service area       | Terrain-limited    | IX-free, before    |  | IX-free, after     |  | Percent New IX |      |
| 41083.4 17,448,421 | 31952.5 16,449,836 | 28766.6 16,034,214 |  | 28762.6 16,034,214 |  | 0.01           | 0.00 |

|                    |        |          |                   |         |                  |         |
|--------------------|--------|----------|-------------------|---------|------------------|---------|
| Undesired          |        | Total IX | Unique IX, before |         | Unique IX, after |         |
| K17LX-D D17 LD APP | 17.0   | 12       |                   |         | 4.0              | 0       |
| KNSD D17 DT LIC    | 116.3  | 16,027   | 0.0               | 0       | 0.0              | 0       |
| KPSP-CD D18 DC LIC | 44.5   | 6,041    | 42.5              | 6,036   | 42.5             | 6,036   |
| KUSI-TV D18 DT LIC | 3135.5 | 409,574  | 3012.2            | 393,542 | 3007.2           | 393,542 |
| KFAZ-CA D18 DC LIC | 9.0    | 12       | 5.0               | 12      | 1.0              | 0       |
| KPBS D19 DT LIC    | 118.3  | 16,027   | 2.0               | 0       | 2.0              | 0       |

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Interference to BLANK0000129067 CP scenario 2

| Call | Chan | Svc | Status | City, State | File Number | Distance |
|------|------|-----|--------|-------------|-------------|----------|
|------|------|-----|--------|-------------|-------------|----------|

Desired: KSCI D18 DT CP LONG BEACH, CA BLANK0000129067

|             |         |      |    |     |                    |                  |          |
|-------------|---------|------|----|-----|--------------------|------------------|----------|
| Undesireds: | K17LX-D | D17  | LD | APP | BAKERSFIELD, CA    |                  | 171.2 km |
|             | KLDF-CD | D17+ | DC | LIC | LOMPOC, CA         | BLANK0000001615  | 225.8    |
|             | KNSD    | D17  | DT | LIC | SAN DIEGO, CA      | BLANK00000068597 | 199.3    |
|             | KSBBCD  | D17  | DC | LIC | SANTA BARBARA, CA  | BLANK00000078274 | 152.4    |
|             | KPSP-CD | D18  | DC | LIC | CATHEDRAL CITY, CA | BLANK00000075036 | 155.2    |
|             | KUSI-TV | D18  | DT | LIC | SAN DIEGO, CA      | BLANK00000005158 | 199.3    |
|             | KFAZ-CA | D18  | DC | LIC | VISALIA, CA        | BLANK00000001548 | 301.3    |
|             | KBBV-CD | D19  | DC | CP  | BAKERSFIELD, CA    | BLANK00000035842 | 148.4    |
|             | KPBS    | D19  | DT | LIC | SAN DIEGO, CA      | BLANK00000069249 | 199.3    |

|                    |                    |                    |                    |                |
|--------------------|--------------------|--------------------|--------------------|----------------|
| Service area       | Terrain-limited    | IX-free, before    | IX-free, after     | Percent New IX |
| 41083.4 17,448,421 | 31952.5 16,449,836 | 28763.6 16,034,214 | 28760.6 16,034,214 | 0.01 0.00      |

|                    |                |                   |                  |
|--------------------|----------------|-------------------|------------------|
| Undesired          | Total IX       | Unique IX, before | Unique IX, after |
| K17LX-D D17 LD APP | 17.0 12        | 3.0 0             |                  |
| KNSD D17 DT LIC    | 116.3 16,027   | 0.0 0             |                  |
| KPSP-CD D18 DC LIC | 44.5 6,041     | 42.5 6,036        |                  |
| KUSI-TV D18 DT LIC | 3135.5 409,574 | 3009.2 393,542    |                  |
| KFAZ-CA D18 DC LIC | 9.0 12         | 2.0 0             |                  |
| KBBV-CD D19 DC CP  | 13.0 12        | 3.0 0             |                  |
| KPBS D19 DT LIC    | 118.3 16,027   | 2.0 0             |                  |

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Interference to proposal scenario 1  
26.74% interference received

|             |         |      |     |        |                   |                   |          |
|-------------|---------|------|-----|--------|-------------------|-------------------|----------|
| Desired:    | Call    | Chan | Svc | Status | City, State       | File Number       | Distance |
|             | K17LX-D | D17  | LD  | APP    | BAKERSFIELD, CA   |                   |          |
| Undesireds: | K17LW-D | D17  | LD  | CP     | BUTTONWILLOW, CA  | BNPDTL20100514ABZ | 17.8 km  |
|             | K17JI-D | D17  | DC  | LIC    | FRESNO, CA        | BLANK0000124967   | 144.6    |
|             | KLDF-CD | D17+ | DC  | LIC    | LOMPOC, CA        | BLANK0000001615   | 137.4    |
|             | KODG-LP | D17  | LD  | LIC    | PALM SPRINGS, CA  | BLANK00000022353  | 323.6    |
|             | KSBBCD  | D17  | DC  | LIC    | SANTA BARBARA, CA | BLANK00000078274  | 123.9    |
|             | K18HD-D | D18  | LD  | LIC    | BAKERSFIELD, CA   | BLDTL20130128ACY  | 42.1     |

|                    |              |         |                 |         |           |         |                 |
|--------------------|--------------|---------|-----------------|---------|-----------|---------|-----------------|
|                    | Service area |         | Terrain-limited |         | IX-free   |         | Percent IX      |
|                    | 530.4        | 475,903 | 530.4           | 475,903 | 379.1     | 348,630 | 28.53 26.74     |
| Undesired          |              |         | Total IX        |         | Unique IX |         | Prcnt Unique IX |
| K17LW-D D17 LD CP  |              | 26.9    | 1,119           | 3.0     | 0         |         | 0.56 0.00       |
| K17JI-D D17 DC LIC |              | 2.0     | 0               | 1.0     | 0         |         | 0.19 0.00       |
| K18HD-D D18 LD LIC |              | 147.4   | 127,273         | 123.5   | 126,154   |         | 23.28 26.51     |