



KSNV - EXPERIMENTAL STA - LAS VEGAS, NEVADA

Appendix B - Longley-Rice Interference Analysis

Channel 33

NOVEMBER 2022

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: KSNV 33 STA BLANK0000185345, Model: Longley-Rice
Start: 2022.11.22 11:57:49

Study created: 2022.11.22 11:57:49

Study build station data: LMS TV 2022-11-21

Proposal: KSNV D33 DT STA LAS VEGAS, NV
File number: BLANK0000185345
Facility ID: 10179
Station data: LMS TV 2022-11-21
Record ID: 25076ff37f210d34017f2da4fdc3214c
Country: U.S.
Zone: II

Build options:
Protect pre-transition records not on baseline channel

Search options:
Non-U.S. records included
Baseline record excluded if station has CP

Stations potentially affected by proposal:

| IX | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-----|----------|------|-----|--------|------------------------|-------------------|----------|
| No | DKDLU-LP | N26 | TX | APP | ST. GEORGE, UT | BLTTL19961024JB | 173.7 km |
| No | K32DW-D | D32 | LD | LIC | CHLORIDE, AZ | BLDTT20130308AAU | 101.5 |
| Yes | KMCC | D32 | DD | APP | LAUGHLIN, NV | BLANK0000203825 | 56.8 |
| Yes | KMCC | D32 | DD | LIC | LAUGHLIN, NV | BLANK0000203289 | 56.8 |
| No | K32OB-D | D32 | LD | LIC | PANACA, NV | BLANK0000078476 | 168.4 |
| No | K32MH-D | D32 | LD | LIC | WASHINGTON, ETC., UT | BLANK0000063182 | 162.3 |
| No | K33NZ-D | D33 | LD | LIC | COTTONWOOD, AZ | BLANK0000063233 | 300.3 |
| Yes | K33OD-D | D33 | LD | LIC | KINGMAN, AZ | BLANK0000071729 | 143.3 |
| No | K33IY-D | D33 | LD | LIC | LE CHEE, ETC., AZ | BLDTT20100610ADA | 332.5 |
| No | KTVW-DT | D33 | DT | LIC | PHOENIX, AZ | BLANK0000186957 | 400.9 |
| No | K33MD-D | D33 | LD | LIC | YUMA, AZ | BLDTL20150206AAR | 375.6 |
| No | KBAK-TV | D33 | DT | LIC | BAKERSFIELD, CA | BLCDT20060628ABK | 329.2 |
| No | KRVLD-LD | N33+ | TX | LIC | BANNING, CA | BLTTL20070103ACI | 273.8 |
| No | K33QO-D | D33 | LD | CP | IMPERIAL, CA | BNPDTL20100510AAB | 364.1 |
| No | KDFX-CD | D33 | DC | LIC | INDIO/PALM SPRINGS, CA | BLANK0000075037 | 271.2 |
| No | KVVB-LD | N33+ | TX | LIC | LUCERNE VALLEY, CA | BLTT19910927IB | 241.6 |
| No | KVVB-LD | D33 | LD | LIC | LUCERNE VALLEY, CA | BLANK0000063260 | 258.7 |
| No | K33ID-D | D33 | LD | LIC | RIDGECREST, CA | BLDTT20080401AUW | 248.4 |
| No | KTBN-TV | D33 | DT | LIC | SANTA ANA, CA | BLANK0000197815 | 341.3 |
| Yes | K33OK-D | D33 | LD | LIC | VERTON, NV | BLANK0000137698 | 87.1 |
| Yes | K33MJ-D | D33 | LD | LIC | PAHRUMP, NV | BLANK0000063611 | 44.7 |
| No | K33NQ-D | D33 | LD | LIC | ALTON, UT | BLANK0000059967 | 267.5 |
| No | K33OO-D | D33 | LD | LIC | ANTIMONY, UT | BLANK0000072666 | 357.2 |
| No | K33PF-D | D33 | LD | LIC | BEAVER, ETC., UT | BLANK0000091257 | 342.5 |
| No | K33EB-D | D33 | LD | LIC | CEDAR CANYON, UT | BLDTT20090728ABU | 260.6 |
| No | K33OQ-D | D33 | LD | LIC | ESCALANTE, UT | BLANK0000075947 | 362.1 |
| No | K33PH-D | D33 | LD | LIC | GARRISON, ETC., UT | BLANK0000125693 | 356.5 |
| No | K40JM-D | D33 | LD | LIC | KANAB, UT | BLANK0000060009 | 251.0 |
| No | K33KF-D | D33 | LD | LIC | KANARRAVILLE, ETC, UT | BLDTT20140430AAH | 229.8 |

Appendix B - Interference Analysis
KSNV Experimental STA - Las Vegas, Nevada
Channel 33 - 42 kW - Page 2

| | | | | | | | |
|-----|---------------|------|----|-----|--------------------------|------------------|-------|
| No | K33JE-D | D33 | LD | LIC | MODENA, BERYL, ETC., UT | BLDTT20090728AEM | 219.6 |
| No | K33OZ-D | D33 | LD | LIC | PAROWAN, ENOCH, ETC., UT | BLANK0000091224 | 272.3 |
| No | K33JW-D | D33 | LD | LIC | ROCKVILLE/SPRINGDALE, UT | BLDTT20081202AHI | 217.4 |
| Yes | K33PC-D | D33 | LD | LIC | SANTA CLARA, UT | BLANK0000064147 | 162.3 |
| No | K33PD-D | D33 | LD | LIC | TOQUERVILLE, HURRICA, UT | BLANK0000093337 | 210.2 |
| No | K33HX-D | D33 | LD | LIC | TROPIC & CANNONVILLE, UT | BLDTL20090708AJH | 322.1 |
| No | K34PE-D | D34 | LD | LIC | DOLAN SPRINGS, AZ | BLANK0000071730 | 82.5 |
| No | K34QY-D | D34 | LD | LIC | GOLDEN VALLEY, AZ | BLANK0000193005 | 103.4 |
| No | K34LI-D | D34 | LD | LIC | JEAN, NV | BLDTT20101228ABS | 45.7 |
| No | K34ME-D | D34 | LD | LIC | OVERTON, NV | BLANK0000137701 | 87.1 |
| No | K34QJ-D | D34 | LD | LIC | PANACA, NV | BLANK0000078477 | 168.8 |
| No | K34OV-D | D34 | LD | LIC | WASHINGTON, ETC., UT | BLANK0000063181 | 162.4 |
| No | KVTE-LD | N35z | TX | LIC | LAS VEGAS, NV | BLTTL20040811AAP | 7.6 |
| No | XHCTTI | D33 | DT | BL | TIJUANA, BN | DTVBL704660 | 431.4 |
| No | LICITACIOND33 | | DT | BL | SAN LUIS RIO COLORAD, SO | DTVBL704879 | 393.5 |

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D33
Latitude: 36 0 27.30 N (NAD83)
Longitude: 115 0 26.90 W
Height AMSL: 1065.7 m
HAAT: 374.0 m
Peak ERP: 42.0 kW
Antenna: DIELECTRIC-TFU-8WB/VP-R S230 (ID 1004417) 0.0 deg
Elev Pattn: Generic
Elec Tilt: 1.05

40.6 dBu contour:

| Azimuth | ERP | HAAT | Distance |
|---------|---------|---------|----------|
| 0.0 deg | 41.2 kW | 535.1 m | 89.6 km |
| 45.0 | 28.4 | 502.7 | 84.8 |
| 90.0 | 13.1 | 292.3 | 67.0 |
| 135.0 | 2.01 | 369.2 | 61.1 |
| 180.0 | 5.91 | 285.4 | 62.4 |
| 225.0 | 3.64 | 154.7 | 51.9 |
| 270.0 | 21.2 | 373.7 | 75.7 |
| 315.0 | 34.1 | 475.3 | 84.6 |

Distance to Canadian border: 1444.1 km

Distance to Mexican border: 366.5 km

Conditions at FCC monitoring station: Livermore CA
Bearing: 289.7 degrees Distance: 629.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 58.9 degrees Distance: 967.4 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 BLANK0000203825 APP scenario 1

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|----------|------|------|-----|--------|--------------|-----------------|----------|
| | KMCC | D32 | DD | APP | LAUGHLIN, NV | BLANK0000203825 | |

Appendix B - Interference Analysis
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| | | | | | | | |
|-----------------|-----------|-----------------|-----------|-------------------|---------------|-------------------|----------------|
| Undesireds: | KSNV | D33 | DT | STA | LAS VEGAS, NV | BLANK0000185345 | 56.8 km |
| | NEW | D32 | DT | CP | FLAGSTAFF, AZ | BLANK0000195680 | 282.8 |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | Percent New IX |
| 39724.5 | 2,064,588 | 27086.9 | 2,010,201 | 26938.5 | 2,010,190 | 26586.2 2,010,050 | 1.31 0.01 |
| Undesired | | Total IX | | Unique IX, before | | Unique IX, after | |
| KSNV D33 DT STA | | 352.4 | 140 | | | 352.4 140 | |
| NEW D32 DT CP | | 148.4 | 11 | 148.4 | 11 | 148.4 11 | |

Interference to BLANK0000203289 LIC scenario 1

| | | | | | | | |
|-----------------|-----------|-----------------|-----------|-------------------|---------------|-------------------|----------------|
| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
| | KMCC | D32 | DD | LIC | LAUGHLIN, NV | BLANK0000203289 | |
| Undesireds: | KSNV | D33 | DT | STA | LAS VEGAS, NV | BLANK0000185345 | 56.8 km |
| | NEW | D32 | DT | CP | FLAGSTAFF, AZ | BLANK0000195680 | 282.8 |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | Percent New IX |
| 39724.5 | 2,064,588 | 26979.9 | 2,009,945 | 26831.5 | 2,009,934 | 26463.3 2,009,503 | 1.37 0.02 |
| Undesired | | Total IX | | Unique IX, before | | Unique IX, after | |
| KSNV D33 DT STA | | 368.2 | 431 | | | 368.2 431 | |
| NEW D32 DT CP | | 148.4 | 11 | 148.4 | 11 | 148.4 11 | |

Interference to BLANK0000071729 LIC scenario 1

| | | | | | | | |
|-----------------|---------|-----------------|--------|-------------------|--------------------|------------------|----------------|
| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
| | K33OD-D | D33 | LD | LIC | KINGMAN, AZ | BLANK0000071729 | |
| Undesireds: | KSNV | D33 | DT | STA | LAS VEGAS, NV | BLANK0000185345 | 143.3 km |
| | KMCC | D32 | DD | APP | LAUGHLIN, NV | BLANK0000203825 | 88.2 |
| | KVVB-LD | N33+ | TX | LIC | LUCERNE VALLEY, CA | BLTT19910927IB | 280.2 |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | Percent New IX |
| 8706.5 | 79,108 | 7098.9 | 63,027 | 7098.9 | 63,027 | 7082.9 63,027 | 0.23 0.00 |
| Undesired | | Total IX | | Unique IX, before | | Unique IX, after | |
| KSNV D33 DT STA | | 16.1 | 0 | | | 16.1 0 | |

Interference to BLANK0000137698 LIC scenario 1

| | | | | | | | |
|--------------------|---------|-----------------|-------|-------------------|--------------------|------------------|----------------|
| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
| | K33OK-D | D33 | LD | LIC | OVERTON, NV | BLANK0000137698 | |
| Undesireds: | KSNV | D33 | DT | STA | LAS VEGAS, NV | BLANK0000185345 | 87.1 km |
| | KMCC | D32 | DD | APP | LAUGHLIN, NV | BLANK0000203825 | 107.9 |
| | K33OD-D | D33 | LD | LIC | KINGMAN, AZ | BLANK0000071729 | 186.7 |
| | KVVB-LD | N33+ | TX | LIC | LUCERNE VALLEY, CA | BLTT19910927IB | 326.4 |
| | K33MJ-D | D33 | LD | LIC | PAHRUMP, NV | BLANK0000063611 | 118.7 |
| | K33PC-D | D33 | LD | LIC | SANTA CLARA, UT | BLANK0000064147 | 77.0 |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | Percent New IX |
| 2488.1 | 8,573 | 2185.4 | 8,567 | 2073.9 | 8,567 | 1974.3 8,567 | 4.80 0.00 |
| Undesired | | Total IX | | Unique IX, before | | Unique IX, after | |
| KSNV D33 DT STA | | 119.5 | 0 | | | 99.6 0 | |
| KMCC D32 DD APP | | 12.0 | 0 | 4.0 | 0 | 4.0 0 | |
| K33OD-D D33 LD LIC | | 4.0 | 0 | 4.0 | 0 | 0.0 0 | |
| K33MJ-D D33 LD LIC | | 8.0 | 0 | 0.0 | 0 | 0.0 0 | |
| K33PC-D D33 LD LIC | | 103.6 | 0 | 87.6 | 0 | 75.7 0 | |

Interference to BLANK0000137698 LIC scenario 2

Appendix B - Interference Analysis
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| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|--------------------|-----------------|----------|
| Desired: | K33OK-D | D33 | LD | LIC | OVERTON, NV | BLANK0000137698 | |
| Undesireds: | KSNV | D33 | DT | STA | LAS VEGAS, NV | BLANK0000185345 | 87.1 km |
| | KMCC | D32 | DD | LIC | LAUGHLIN, NV | BLANK0000203289 | 107.9 |
| | K33OD-D | D33 | LD | LIC | KINGMAN, AZ | BLANK0000071729 | 186.7 |
| | KVVB-LD | N33+ | TX | LIC | LUCERNE VALLEY, CA | BLTT19910927IB | 326.4 |
| | K33MJ-D | D33 | LD | LIC | PAHRUMP, NV | BLANK0000063611 | 118.7 |
| | K33PC-D | D33 | LD | LIC | SANTA CLARA, UT | BLANK0000064147 | 77.0 |

| | Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX |
|--------|--------------|-----------------|-----------------|----------------|----------------|
| 2488.1 | 8,573 | 2185.4 | 8,567 | 1974.3 | 4.80 0.00 |

| Undesired | Total IX | Unique IX, before | Unique IX, after |
|--------------------|----------|-------------------|------------------|
| KSNV D33 DT STA | 119.5 | 0 | 99.6 |
| KMCC D32 DD LIC | 12.0 | 0 | 4.0 |
| K33OD-D D33 LD LIC | 4.0 | 0 | 0.0 |
| K33MJ-D D33 LD LIC | 8.0 | 0 | 0.0 |
| K33PC-D D33 LD LIC | 103.6 | 0 | 75.7 |

Interference to BLANK0000063611 LIC scenario 1

**IX: 8.28% interference caused

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|--------------------|------------------|----------|
| Desired: | K33MJ-D | D33 | LD | LIC | PAHRUMP, NV | BLANK0000063611 | |
| Undesireds: | KSNV | D33 | DT | STA | LAS VEGAS, NV | BLANK0000185345 | 44.7 km |
| | KMCC | D32 | DD | APP | LAUGHLIN, NV | BLANK0000203825 | 95.3 |
| | K33OD-D | D33 | LD | LIC | KINGMAN, AZ | BLANK0000071729 | 174.9 |
| | KVVB-LD | N33+ | TX | LIC | LUCERNE VALLEY, CA | BLTT19910927IB | 208.9 |
| | K33OK-D | D33 | LD | LIC | OVERTON, NV | BLANK0000137698 | 118.7 |
| | K33PC-D | D33 | LD | LIC | SANTA CLARA, UT | BLANK0000064147 | 195.7 |
| | K34LI-D | D34 | LD | LIC | JEAN, NV | BLDTT20101228ABS | 8.4 |

| | Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX |
|--------|--------------|-----------------|-----------------|----------------|----------------|
| 4338.2 | 387,190 | 3664.6 | 296,523 | 2914.4 | 3.58 8.28 |

| Undesired | Total IX | Unique IX, before | Unique IX, after |
|--------------------|----------|-------------------|------------------|
| KSNV D33 DT STA | 452.9 | 239,881 | 108.3 |
| KMCC D32 DD APP | 212.3 | 234,834 | 0.0 |
| K33OD-D D33 LD LIC | 144.2 | 2,824 | 28.0 |
| K33OK-D D33 LD LIC | 28.1 | 0 | 4.0 |
| K33PC-D D33 LD LIC | 124.3 | 44,276 | 12.0 |
| K34LI-D D34 LD LIC | 309.4 | 64,352 | 237.2 |

Interference to BLANK0000063611 LIC scenario 2

**IX: 63.90% interference caused

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|--------------------|------------------|----------|
| Desired: | K33MJ-D | D33 | LD | LIC | PAHRUMP, NV | BLANK0000063611 | |
| Undesireds: | KSNV | D33 | DT | STA | LAS VEGAS, NV | BLANK0000185345 | 44.7 km |
| | KMCC | D32 | DD | LIC | LAUGHLIN, NV | BLANK0000203289 | 95.3 |
| | K33OD-D | D33 | LD | LIC | KINGMAN, AZ | BLANK0000071729 | 174.9 |
| | KVVB-LD | N33+ | TX | LIC | LUCERNE VALLEY, CA | BLTT19910927IB | 208.9 |
| | K33OK-D | D33 | LD | LIC | OVERTON, NV | BLANK0000137698 | 118.7 |
| | K33PC-D | D33 | LD | LIC | SANTA CLARA, UT | BLANK0000064147 | 195.7 |
| | K34LI-D | D34 | LD | LIC | JEAN, NV | BLDTT20101228ABS | 8.4 |

| | Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX |
|--------|--------------|-----------------|-----------------|----------------|----------------|
| 4338.2 | 387,190 | 3664.6 | 296,523 | 2914.4 | 5.09 63.90 |

| Undesired | Total IX | Unique IX, before | Unique IX, after |
|-----------------|----------|-------------------|------------------|
| KSNV D33 DT STA | 452.9 | 239,881 | 156.3 |
| KMCC D32 DD LIC | 112.2 | 72,610 | 0.0 |

Appendix B - Interference Analysis
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| | | | | | | |
|--------------------|-------|--------|-------|--------|-------|-------|
| K330D-D D33 LD LIC | 144.2 | 2,824 | 92.1 | 0 | 28.0 | 0 |
| K330K-D D33 LD LIC | 28.1 | 0 | 4.0 | 0 | 4.0 | 0 |
| K33PC-D D33 LD LIC | 124.3 | 44,276 | 48.1 | 6,743 | 12.0 | 20 |
| K34LI-D D34 LD LIC | 309.4 | 64,352 | 261.3 | 26,862 | 237.2 | 1,432 |

Interference to BLANK0000064147 LIC scenario 1

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|--------------------|---------|-----------------|--------------|-------------------|--------------------------|------------------|----------------|
| | K33PC-D | D33 | LD | LIC | SANTA CLARA, UT | BLANK0000064147 | |
| Undesireds: | KSNV | D33 | DT | STA | LAS VEGAS, NV | BLANK0000185345 | 162.3 km |
| | K330K-D | D33 | LD | LIC | OVERTON, NV | BLANK0000137698 | 77.0 |
| | K33PD-D | D33 | LD | LIC | TOQUERVILLE, HURRICA, UT | BLANK0000093337 | 55.8 |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | Percent New IX |
| 6271.0 | 132,171 | 5731.3 | 128,747 | 5455.6 | 93,327 | 5435.6 93,324 | 0.37 0.00 |
| Undesired | | | Total IX | Unique IX, before | | Unique IX, after | |
| KSNV D33 DT STA | | | 3 | | | 20.0 | 3 |
| K330K-D D33 LD LIC | | | 91.7 0 | 91.7 0 | | 91.7 | 0 |
| K33PD-D D33 LD LIC | | | 184.0 35,420 | 184.0 35,420 | | 184.0 | 35,420 |

Interference to proposal scenario 1

**MX: 0.63% interference received

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-----------------|-----------|-----------------|--------------|--------------|---------------|-----------------|----------|
| | KSNV | D33 | DT | STA | LAS VEGAS, NV | BLANK0000185345 | |
| Undesireds: | KMCC | D32 | DD | APP | LAUGHLIN, NV | BLANK0000203825 | 56.8 km |
| Service area | | Terrain-limited | | IX-free | | Percent IX | |
| 16851.7 | 1,925,667 | 10336.8 | 1,912,982 | 10035.8 | 1,901,007 | 2.91 0.63 | |
| Undesired | | | Total IX | Unique IX | | Prcnt Unique IX | |
| KMCC D32 DD APP | | | 301.0 11,975 | 301.0 11,975 | | 2.91 0.63 | |

Interference to proposal scenario 2

0.63% interference received

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-----------------|-----------|-----------------|--------------|--------------|---------------|-----------------|----------|
| | KSNV | D33 | DT | STA | LAS VEGAS, NV | BLANK0000185345 | |
| Undesireds: | KMCC | D32 | DD | LIC | LAUGHLIN, NV | BLANK0000203289 | 56.8 km |
| Service area | | Terrain-limited | | IX-free | | Percent IX | |
| 16851.7 | 1,925,667 | 10336.8 | 1,912,982 | 10051.9 | 1,901,007 | 2.76 0.63 | |
| Undesired | | | Total IX | Unique IX | | Prcnt Unique IX | |
| KMCC D32 DD LIC | | | 284.9 11,975 | 284.9 11,975 | | 2.76 0.63 | |