

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: PROPOSED, Model: Longley-Rice
Start: 2024.05.02 16:41:00

Study created: 2024.05.02 16:41:00

Study build station data: LMS TV 2024-04-30

Proposal: KUDF-LP D14 LD APP TUCSON, AZ
File number: PROPOSED
Facility ID: 27278
Station data: User record
Record ID: 8
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 | K14KK-D | D14 | LD | LIC | FLAGSTAFF, AZ | BLANK0000024870 | 335.4 km |
| Yes | K14NA-D | D14 | LD | LIC | GLOBE & MIAMI, AZ | BLDTT20100527ADW | 123.4 |
| Yes | K14RK-D | D14 | LD | LIC | PHOENIX, AZ | BLANK0000064022 | 149.5 |
| No | K14HC-D | D14 | LD | LIC | PRESCOTT, AZ | BLDTT20141222ABB | 281.7 |
| Yes | KNXV-TV | D15 | DT | LIC | PHOENIX, AZ | BLANK0000150948 | 149.5 |
| No | DDKZOL-LP | N15z | TX | APP | SAFFORD, AZ | BLTT20060215AAT | 127.0 |
| No | DDK21GC | N21- | TX | APP | SAFFORD, AZ | BLTT20060215AAV | 127.0 |

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D14
Mask: Simple
Latitude: 32 14 57.00 N (NAD83)
Longitude: 111 7 0.90 W
Height AMSL: 1379.2 m
HAAT: 613.8 m
Peak ERP: 15.0 kW

Antenna: ERI-AL8WX-14-PL (ID 110937) 65.0 deg
Elev Pattn: Generic
Elec Tilt: 1.75

48.7 dBu contour:

| Azimuth | ERP | HAAT | Distance |
|---------|---------|---------|----------|
| 0.0 deg | 14.6 kW | 660.0 m | 72.3 km |
| 45.0 | 14.0 | 657.2 | 72.0 |
| 90.0 | 13.6 | 635.8 | 71.3 |
| 135.0 | 14.7 | 546.6 | 69.0 |
| 180.0 | 7.46 | 590.9 | 66.0 |
| 225.0 | 0.726 | 643.7 | 52.2 |
| 270.0 | 0.811 | 620.5 | 52.5 |
| 315.0 | 8.44 | 555.3 | 65.7 |

Distance to Canadian border: 1861.6 km

**Proposal is within coordination distance of Mexican border
Distance to Mexican border: 93.9 km

Conditions at FCC monitoring station: Douglas AZ
Bearing: 120.7 degrees Distance: 161.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 29.3 degrees Distance: 1020.0 km

No land mobile station failures found

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 BLDTT20100527ADW LIC scenario 1

| Call | Chan | Svc | Status | City, State |
|------|------|-----|--------|-------------|
|------|------|-----|--------|-------------|

| File Number |
|-------------|
|-------------|

| Distance |
|----------|
|----------|

| | | | | | | | |
|--------------|------------|-----------------|--------|-------------------|-------------------|------------------|----------------|
| Desired: | K14NA-D | D14 | LD | LIC | GLOBE & MIAMI, AZ | BLDTT20100527ADW | |
| Undesireds: | KUDF-LP | D14 | LD | APP | TUCSON, AZ | PROPOSED | 123.4 km |
| | K14RK-D | D14 | LD | LIC | PHOENIX, AZ | BLANK0000064022 | 110.8 |
| | KNXV-TV | D15 | DT | LIC | PHOENIX, AZ | BLANK0000150948 | 110.8 |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | Percent New IX |
| 4845.0 | 27,121 | 3537.0 | 25,683 | 3466.4 | 25,683 | 3396.9 25,677 | 2.01 0.02 |
| Undesired | | Total IX | | Unique IX, before | | Unique IX, after | |
| KUDF-LP | D14 LD APP | 106.3 | 6 | | | 69.5 6 | |
| K14RK-D | D14 LD LIC | 70.6 | 0 | 63.6 | 0 | 32.8 0 | |
| KNXV-TV | D15 DT LIC | 7.0 | 0 | 0.0 | 0 | 0.0 0 | |

Interference to BLANK0000064022 LIC scenario 1

| | | | | | | | |
|--------------|------------|-----------------|-----------|-------------------|-------------------|-------------------|----------------|
| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
| | K14RK-D | D14 | LD | LIC | PHOENIX, AZ | BLANK0000064022 | |
| Undesireds: | KUDF-LP | D14 | LD | APP | TUCSON, AZ | PROPOSED | 149.5 km |
| | K14KK-D | D14 | LD | LIC | FLAGSTAFF, AZ | BLANK0000024870 | 216.3 |
| | K14NA-D | D14 | LD | LIC | GLOBE & MIAMI, AZ | BLDTT20100527ADW | 110.8 |
| | K14HC-D | D14 | LD | LIC | PRESCOTT, AZ | BLDTT20141222ABB | 135.7 |
| | KNXV-TV | D15 | DT | LIC | PHOENIX, AZ | BLANK0000150948 | 0.0 |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | Percent New IX |
| 14030.3 | 4,081,754 | 11429.3 | 4,035,094 | 11127.8 | 3,973,321 | 10760.8 3,920,102 | 3.30 1.34 |
| Undesired | | Total IX | | Unique IX, before | | Unique IX, after | |
| KUDF-LP | D14 LD APP | 466.7 | 75,830 | | | 366.9 53,219 | |
| K14KK-D | D14 LD LIC | 1.0 | 0 | 0.0 | 0 | 0.0 0 | |
| K14NA-D | D14 LD LIC | 122.6 | 18,835 | 102.6 | 18,835 | 39.8 1,353 | |
| K14HC-D | D14 LD LIC | 35.9 | 5 | 16.9 | 5 | 16.9 5 | |
| KNXV-TV | D15 DT LIC | 163.1 | 42,933 | 162.1 | 42,933 | 132.1 37,804 | |

Interference to BLANK0000150948 LIC scenario 1

| | | | | | | | |
|----------|---------|------|-----|--------|-------------|-----------------|----------|
| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
| | KNXV-TV | D15 | DT | LIC | PHOENIX, AZ | BLANK0000150948 | |

| | | | | | | | |
|-------------|---------|-----|----|-----|------------|-----------------|----------|
| Undesireds: | KUDF-LP | D14 | LD | APP | TUCSON, AZ | PROPOSED | 149.5 km |
| | KHRR | D16 | DT | LIC | TUCSON, AZ | BLANK0000064008 | 149.5 |

| | | | | |
|-------------------|-------------------|-------------------|-------------------|----------------|
| Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX |
| 40347.1 4,183,467 | 33262.6 4,172,866 | 33164.4 4,172,228 | 32955.0 4,169,152 | 0.63 0.07 |

| | | | |
|--------------------|-------------|-------------------|------------------|
| Undesired | Total IX | Unique IX, before | Unique IX, after |
| KUDF-LP D14 LD APP | 307.6 3,714 | | 209.4 3,076 |
| KHRR D16 DT LIC | 98.2 638 | 98.2 638 | 0.0 0 |

Interference to BLANK0000150948 LIC scenario 2

| | | | | | | | |
|----------|---------|------|-----|--------|-------------|-----------------|----------|
| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
| | KNXV-TV | D15 | DT | LIC | PHOENIX, AZ | BLANK0000150948 | |

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|-------------|---------|-----|----|-----|------------|-----------------|----------|
| Undesireds: | KUDF-LP | D14 | LD | APP | TUCSON, AZ | PROPOSED | 149.5 km |
| | KHRR | D16 | DT | LIC | TUCSON, AZ | BLANK0000243969 | 149.5 |

| | | | | |
|-------------------|-------------------|-------------------|-------------------|----------------|
| Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX |
| 40347.1 4,183,467 | 33262.6 4,172,866 | 33164.4 4,172,228 | 32955.0 4,169,152 | 0.63 0.07 |

| | | | |
|--------------------|-------------|-------------------|------------------|
| Undesired | Total IX | Unique IX, before | Unique IX, after |
| KUDF-LP D14 LD APP | 307.6 3,714 | | 209.4 3,076 |
| KHRR D16 DT LIC | 98.2 638 | 98.2 638 | 0.0 0 |

Interference to proposal scenario 1

| | | | | | | | |
|----------|---------|------|-----|--------|-------------|-------------|----------|
| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
| | KUDF-LP | D14 | LD | APP | TUCSON, AZ | PROPOSED | |

| | | | | | | | |
|-------------|---------|-----|----|-----|-------------------|------------------|----------|
| Undesireds: | K14NA-D | D14 | LD | LIC | GLOBE & MIAMI, AZ | BLDTT20100527ADW | 123.4 km |
| | K14RK-D | D14 | LD | LIC | PHOENIX, AZ | BLANK0000064022 | 149.5 |
| | KNXV-TV | D15 | DT | LIC | PHOENIX, AZ | BLANK0000150948 | 149.5 |

| | | | |
|-----------------|-----------------|----------------|------------|
| Service area | Terrain-limited | IX-free | Percent IX |
| 13556.7 992,738 | 10608.5 985,214 | 9685.9 984,665 | 8.70 0.06 |

| | | | |
|--------------------|-----------|-----------|-----------------|
| Undesired | Total IX | Unique IX | Prcnt Unique IX |
| K14NA-D D14 LD LIC | 88.1 22 | 29.0 0 | 0.27 0.00 |
| K14RK-D D14 LD LIC | 893.6 549 | 833.5 527 | 7.86 0.05 |

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|--------------------|-----|---|-----|---|------|------|
| KNXV-TV D15 DT LIC | 3.0 | 0 | 0.0 | 0 | 0.00 | 0.00 |
|--------------------|-----|---|-----|---|------|------|