

K34QO-D FI 184602
Springdale, AR

Minor Modification change to ASR 1040849 controlled ATC Tower site, reduce ERP and change antenna make and model. No new construction. Site is 124.5 km from Springfield 121km center.

Study created: 2022.07.22 12:55:53

Study build station data: LMS TV 2022-07-21

Proposal: K34QO-D D34 LD CP SPRINGDALE, AR
File number: ASR 1040849 @ 175
Facility ID: 184602
Station data: User record
Record ID: 236
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 | KHMF-LD | D33+ | LD | LIC | FORT SMITH, AR | BLANK0000116534 | 91.3 km |
| No | KNWA-TV | D33 | DT | LIC | ROGERS, AR | BLANK0000106176 | 19.0 |
| No | KUOC-LD | D33 | LD | LIC | ENID, OK | BLANK0000157473 | 174.8 |
| Yes | KSJF-CD | D34 | DC | LIC | FORT SMITH, AR | BLANK0000116533 | 91.3 |
| No | KASN | D34 | DT | LIC | PINE BLUFF, AR | BLANK0000073008 | 271.9 |
| No | WQEC | D34 | DT | CP | QUINCY, IL | BLANK0000035763 | 475.4 |
| No | WQEC | D34 | DT | LIC | QUINCY, IL | BLEDT20040715ADL | 475.4 |
| No | KMSS-TV | D34 | DT | LIC | SHREVEPORT, LA | BLANK0000192923 | 406.9 |
| No | K41KX-D | D34 | LD | CP | JOPLIN, MO | BLANK0000058756 | 84.1 |
| No | WDAF-TV | D34 | DT | LIC | KANSAS CITY, MO | BLANK0000155694 | 308.2 |
| No | KSPR-LD | D34 | LD | LIC | SPRINGFIELD, MO | BLANK0000108532 | 142.3 |
| No | KCYH-LD | D34 | LD | LIC | ARDMORE, OK | BLANK0000068523 | 365.8 |
| No | K3AML-D | D34 | LD | CP | MC ALESTER, OK | BLANK0000193303 | 228.8 |
| No | KWRW-LD | D34+ | LD | LIC | OKLAHOMA CITY, OK | BLANK0000143117 | 310.2 |
| No | KWRW-LD | D34+ | LD | CP | OKLAHOMA CITY, OK | BLANK0000143732 | 313.1 |
| Yes | KMYT-TV | D34 | DT | LIC | TULSA, OK | BLANK0000067647 | 142.4 |
| No | WFBI-LD | D34 | LD | LIC | SOUTH EAST MEMPHIS, TN | BLANK0000156902 | 408.6 |
| Yes | KFLU-LD | D35 | LD | LIC | Fayetteville, AR | BLANK0000112149 | 20.1 |
| No | KRAH-CD | D35 | DC | LIC | PARIS, AR | BLANK0000127224 | 145.3 |
| No | KOZJ | D35 | DT | LIC | JOPLIN, MO | BLANK0000059543 | 91.1 |
| No | KEGG-LD | D35 | LD | LIC | TULSA, OK | BLANK0000162802 | 179.3 |
| No | KSFZ-LD | N41+ | TX | LIC | Springfield, MO | BLTT20020502AAT | 155.4 |

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:
KURM 790 L DAN D ROGERS, AR BL19850122AA
KURM 790 L DAN N ROGERS, AR BL19840912AE

Record parameters as studied:

Channel: D34
Mask: Simple
Latitude: 36 19 23.90 N (NAD83)
Longitude: 94 8 8.00 W
Height AMSL: 435.5 m (Adjusted based on actual ground elevation calculation)
HAAT: 0.0 m
Peak ERP: 0.100 kW
Antenna: SAMCO160 175.0 deg
Elev Pattn: Generic

50.7 dBu contour:

| Azimuth | ERP | HAAT | Distance |
|---------|----------|--------|----------|
| 0.0 deg | 0.005 kW | 48.4 m | 5.7 km |
| 45.0 | 0.003 | 32.2 | 4.3 |
| 90.0 | 0.000 | 40.0 | 3.2 |
| 135.0 | 0.038 | 64.7 | 11.1 |
| 180.0 | 0.097 | 33.5 | 10.0 |

| | | | |
|-------|-------|------|-----|
| 225.0 | 0.022 | 54.5 | 8.9 |
| 270.0 | 0.000 | 52.1 | 3.6 |
| 315.0 | 0.003 | 50.3 | 5.2 |

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 47 m

Distance to Canadian border: 1134.6 km

Distance to Mexican border: 993.6 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 325.2 degrees Distance: 632.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 296.9 degrees Distance: 1055.3 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%

---- Below is IX received by proposal ASR 1040849 @ 175 ----

Proposal receives 29.93% interference from scenario 1
No IX check failures found.

TULSA

Latitude: 36-09-12 N
Longitude: 095-59-34 W
ERP: 10.00 kW
Channel: 2
Frequency: 57.0 MHz
AMSL Height: 100.0 m
Elevation: 0.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: Longley-Rice
Climate: Cont temperate
Conductivity: 0.0050
Dielec Const: 15.0
Refractivity: 311.0
Receiver Ht AG: 10.0 m
Receiver Gain: 0 dB
Time Variability: 50.0%
Sit. Variability: 50.0%
ITM Mode: Broadcast

Line of Sight

