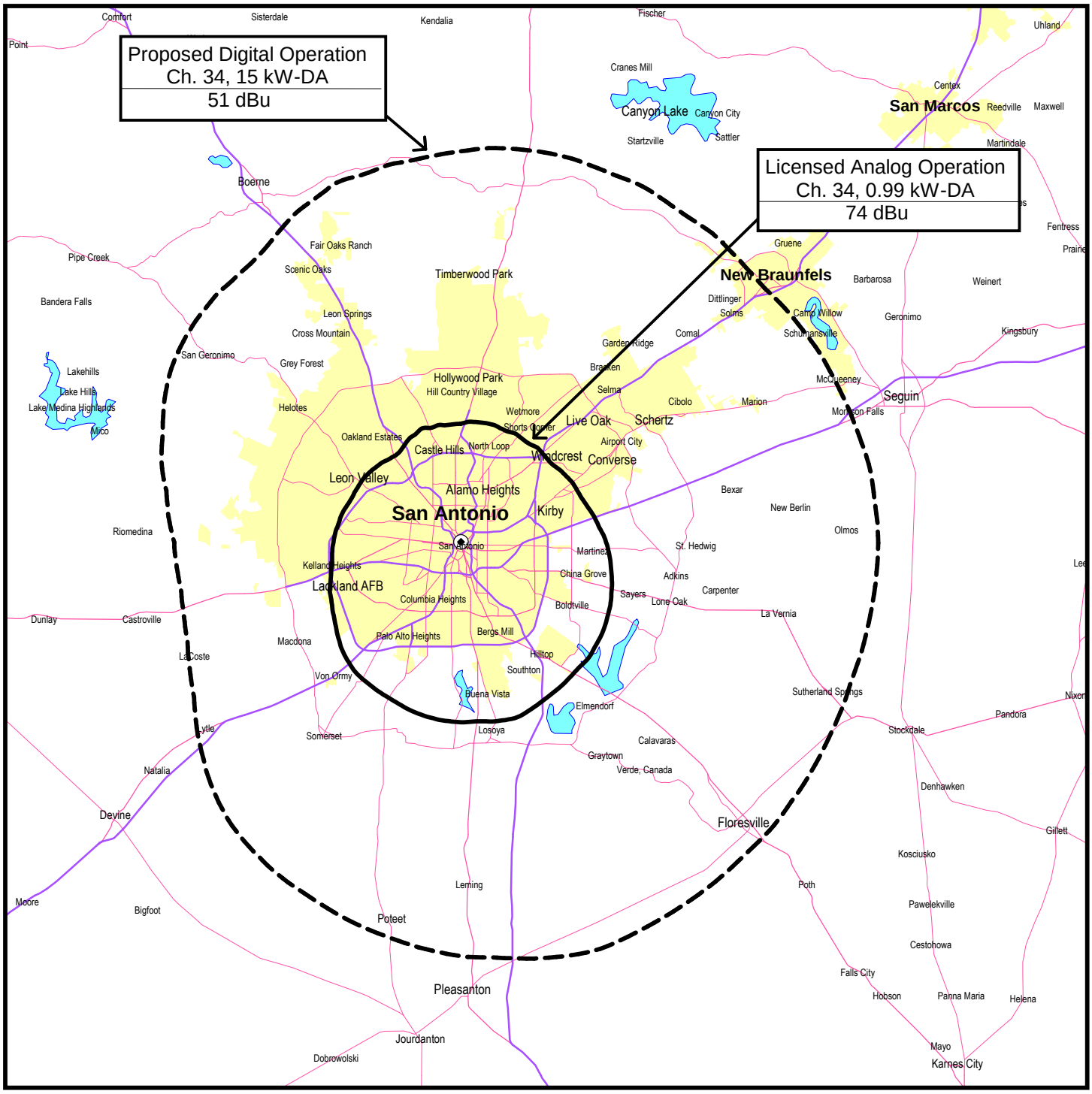



# FCC PREDICTED COVERAGE CONTOURS

CLASS A STATION KNIC-CA
SAN ANTONIO, TEXAS
CH 34 15 KW (DA-MAX)

du Treil, Lundin & Rackley, Inc. Sarasota, Florida 34237

## *Channel 34 Separation Study to Mexican Allotments*

***Type:*** DT ***Zone:*** III ***Date:*** 03/18/2014
***Channel:*** 34 ***Coordinates:*** 029-25-41 098-29-32 (NAD 27) Page: ***1*** of 1
***Class:*** VL ***Buffer Distance:*** 50 km

| ***Callsign*** / ***Fac. ID*** | ***Status*** / ***ARN*** | ***Chan.*** | ***Serv.*** | ***Zone Class*** | ***City*** / ***DA*** | ***Ant. ID*** | ***ERP(kW)*** | ***State*** / ***HAAT(m)*** | ***Latitude*** / ***Longitude*** | ***Dist.(km)*** / ***Bear.(deg)*** | ***Min.(km)*** / ***Max.(km)*** | ***Spacing(km)*** / ***Comment*** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***KVUE*** | LIC | 33 | DT | 3 | AUSTIN | | | TX | 030-19-18 | 119.35 | 24 | 9.35 |
| 35867 | BLCDT 20050624AAI | | | | N | 64437 | 1000 | 376 | 097-48-11 | 33.6 | 110 | ***CLOSE*** |
| | | 34 Z | TA | 2 | CIUDAD ACUNA | | | CI | 029-19-33 | 237.02 | 244 | -6.98 |
| 98283 | | | | | N | | | | 100-55-51 | 267.84 | 244 | ***SHORT**1*** |
| | MEXDTV | 34 | DT | | NUEVO LAREDO | | | TA | 27-28-31 | 238.05 | 223 | 15.05 |
| | | | | | 0 | 0 | 0 | | 99-30-15 | 204.74 | 223 | ***CLEAR*** |
| ***NEWDT*** | GRANT | 34 | DT | | NUEVO LAREDO | | | TA | 027-27-30 | 240.39 | 223 | 17.39 |
| 180800 | BPFS 20090331AHG | | | | D | 92427 | 200 | | 099-31-12 | 204.89 | 223 | ***CLEAR*** |

**1 See Exhibit 12 and OET-69 Longley-Rice interference study showing attached as Figure 3.

Figure 3

OET-69 CALCULATED INTERFERENCE TO MEXICO ALLOTMENT FROM PROPOSED KNIC-CD

VERSION: 64-BIT
STUDY DATE: 03/18/2014
STUDY TIME: 17:04:46
INTERFERENCE CAUSED
RSS/SUM NOT ENABLED
CELL SIZE (KM): 1.00
TERRAIN INCREMENT (KM): 1.00
USING OFFSET IN DETERMINING THRESHOLDS
USING MOD2
USING MOD4

**********

TERRAIN DATABASE: o:\ned3\
NAD CONVERSION DATABASE: m:\gnis\
POPULATION DATABASE: o:\pop

**********

CDACUN 29-19-33 100-55-51 34(Z) 5000.000 KW 921.00 M 50.0% 63.7 DBU
CIUDAD ACUNA, CI

| | AREA | POPULATION |
|---|---|---|
| WITHIN NOISE LIMITED CONTOUR | 36629.89 | 0 |
| NOT AFFECTED BY TERRAIN LOSSES | 34179.70 | 0 |

KNIC-CA 29-25-41 098-29-32 34(N) 15.000 KW 371.80 M 10.0% 50.7 DBU
SAN ANTONIO, TX APP BDFCDTA20130925AHB
DIRECTIONAL ANTENNA REFERENCE AZIMUTH: 80.00
1.000 0.985 0.951 0.925 0.929 0.959 0.990 0.997 0.975 0.922 0.845 0.758
0.680 0.605 0.510 0.397 0.302 0.253 0.241 0.253 0.302 0.397 0.510 0.605
0.680 0.758 0.845 0.922 0.975 0.997 0.990 0.959 0.929 0.925 0.951 0.985
1.000

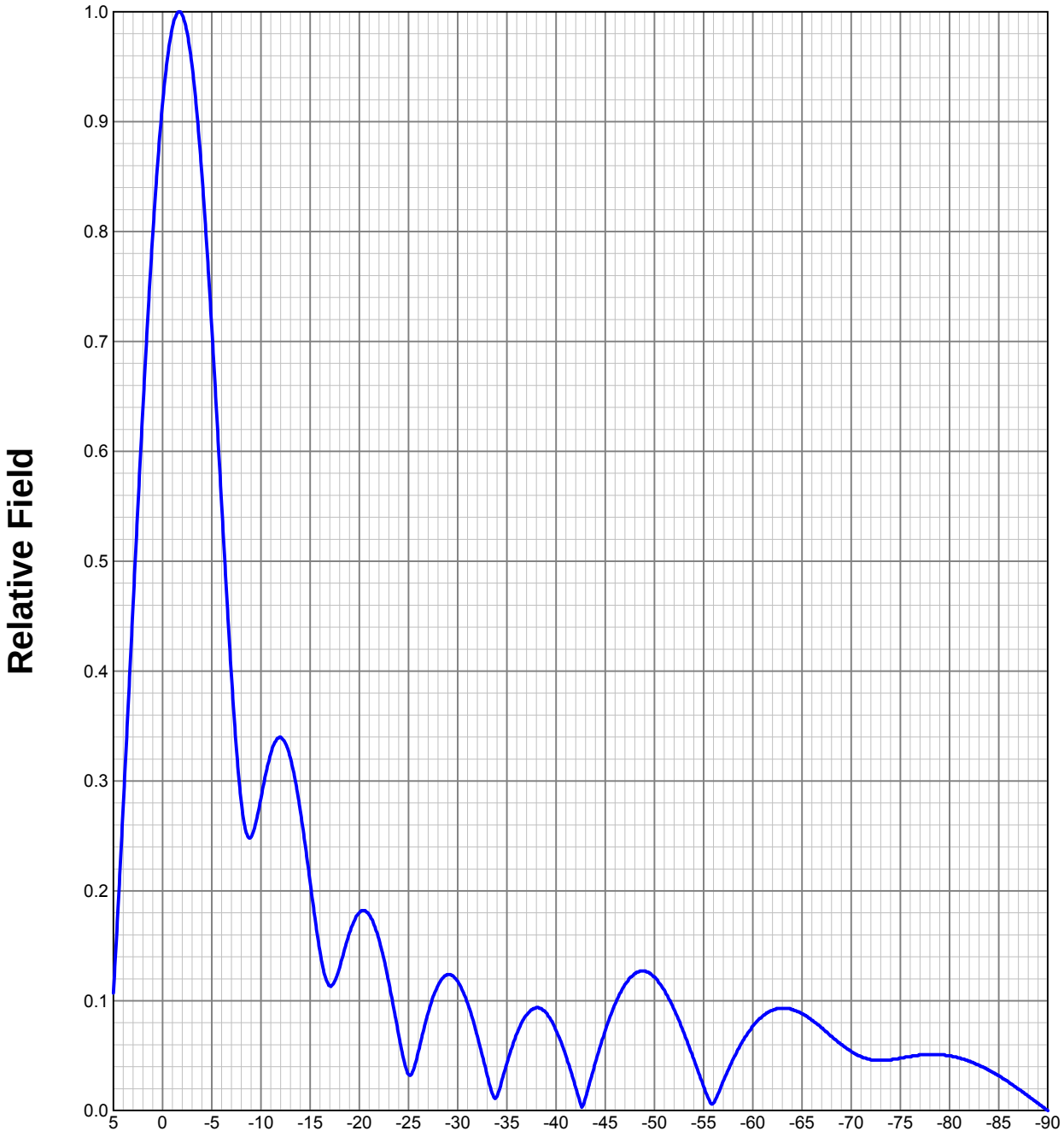
D/U BASELINE: 34.00

| | AREA | POPULATION |
|---|---|---|
| INTERFERENCE | 0.00 | 0 ( 0.0) |

**********

# ELEVATION PATTERN

| | | | | |
|---|---|---|---|---|
| Type: | AL8 | | Channel: | 34 |
| Directivity: | Numeric | dBd | Location: | |
| Main Lobe: | 8.68 | 9.39 | Beam Tilt: | -1.75 |
| Horizontal: | 7.30 | 8.63 | Polarization: | Horizontal |




*Preliminary, subject to final design and review.*