

ENGINEERING TECHNICAL STATEMENT
COMPLIANCE WITH §73.3801 OF FCC RULES
SIMULCASTING DURING ATSC 3.0 TRANSITION

The **KASY-TV** (ATSC 3.0 Host) full-power digital television broadcast facility (File Number 0000145221) is licensed to operate on Channel 36 with an ERP of 205 kW using a nondirectional antenna mounted on a tower with Antenna Structure Registration Number (ASRN) 1225205 located in Albuquerque, NM. The **KRQE** (ATSC 1.0 Host #1) full-power television facility (File Number BLCDT-20090622ABJ) is licensed to operate on Channel 13 with an ERP of 21.5 kW using a nondirectional antenna mounted on a support structure located in Albuquerque, NM (does not have an ASR). The **KWBQ** (ATSC 1.0 Host #2) full-power television facility (File Number 0000145522) is licensed to operate on Channel 29 with an ERP of 245 kW using a nondirectional antenna and is co-located with KASY-TV and shares the same nondirectional antenna system with KASY-TV. The **KOAT-TV** (ATSC 1.0 Host #3) full-power television facility (File Number BLCDT-20090617ABU) is licensed to operate on Channel 7 with an ERP of 26.5 kW using a directional antenna mounted on a tower with ASRN 1056647 located in Albuquerque, NM.

The aforementioned stations plan to partner in a simulcasting arrangement for purposes of airing ATSC 1.0 and ATSC 3.0 programming streams as follows:

- KASY-TV ATSC 1.0 Tenant at KRQE ATSC 1.0 Host
- KASY-TV ATSC 1.0 Tenant at KWBQ ATSC 1.0 Host
- KASY-TV ATSC 1.0 Tenant at KOAT-TV ATSC 1.0 Host
- KRQE, KWBQ & KOAT-TV ATSC 3.0 Tenants at KASY-TV ATSC 3.0 Host

All three stations are assigned to the same DMA (Albuquerque, NW).

Pursuant to section 73.3801(f)(6)(i) of FCC Rules, the following information is required for these types of applications.

Stations serving as the ATSC 1.0 Hosts:

- ATSC1.0 Host #1: KRQE ([BLCDT-20090622ABJ](#))
- ATSC1.0 Host #2: KWBQ ([0000145522](#))
- ATSC1.0 Host #3: KOAT-TV ([BLCDT-20090617ABU](#))

Technical Facilities of ATSC 1.0 Host #1 Station:

- Station: KRQE
- Frequency: 213 MHz (Channel 13)
- ERP: 21.5 kW
- Antenna: Nondirectional
- Antenna Center Height: 54.0 m AGL
- Antenna Model: ATW6V8-HTO-13
- Antenna Polarization: Horizontal
- Antenna Beam Tilt: 0.0°
- Coordinates: 35° 12' 40.1" N, 106° 26' 59.0" W
- ASRN: N/A
- DMA: Albuquerque, NM ([all stations](#))

Technical Facilities of ATSC 1.0 Host #2 Station:

- Station: KWBQ
- Frequency: 563 MHz (Channel 29)
- ERP: 245 kW
- Antenna: Nondirectional
- Antenna Center Height: 67.1 m AGL
- Antenna Model: TUD-O5-8/40H-T
- Antenna Polarization: Horizontal
- Antenna Beam Tilt: 1.0°
- Coordinates: 35° 12' 49.8" N, 106° 27' 03.3" W

- ASRN: 1225205
- DMA: Albuquerque, NM (all stations)

Technical Facilities of ATSC 1.0 Host #3 Station:

- Station: KOAT-TV
- Frequency: 177 MHz (Channel 7)
- ERP: 26.5 kW
- Antenna: Directional
- Antenna Center Height: 71.0 m AGL
- Antenna Model: TW-7A7-R
- Antenna Polarization: Horizontal
- Antenna Beam Tilt: 2.0°
- Coordinates: 35° 12' 53.0" N, 106° 27' 03.0" W
- ASRN: 1056647
- DMA: Albuquerque, NM (all stations)

Pursuant to section 73.3801(f)(6)(ii) of FCC Rules, the following information is also required for these types of applications.

KASY-TV ATSC 1.0 Tenant at KRQE ATSC 1.0 Host

- Predicted population within the noise limited service contour served by the station's original ATSC 1.0 signal: **1,183,127 persons** based on U.S. Census 2020 data (See Exhibit 1).
- Predicted population within the noise limited service contour served by the station's original ATSC 1.0 signal that will lose the station's ATSC 1.0 service as a result of the simulcasting arrangement, including identifying areas of service loss by providing a contour overlap map: **0 Persons (See Exhibits 2-3)**

- Will the ATSC 1.0 simulcast signal aired on the host station serve at least 95% of station's original ATSC 1.0 population? **Yes, it will serve 100% (See Exhibits 1 - 3).**

KASY-TV ATSC 1.0 Tenant at KWBQ ATSC 1.0 Host

- Predicted population within the noise limited service contour served by the station's original ATSC 1.0 signal: **1,183,127 persons** based on U.S. Census 2020 data **(See Exhibit 1).**
- Predicted population within the noise limited service contour served by the station's original ATSC 1.0 signal that will lose the station's ATSC 1.0 service as a result of the simulcasting arrangement, including identifying areas of service loss by providing a contour overlap map: **0 Persons (See Exhibits 4-5)**
- Will the ATSC 1.0 simulcast signal aired on the host station serve at least 95% of station's original ATSC 1.0 population? **Yes, it will serve 100% (See Exhibits 1, 4 & 5)**

KASY-TV ATSC 1.0 Tenant at KOAT-TV ATSC 1.0 Host

- Predicted population within the noise limited service contour served by the station's original ATSC 1.0 signal: **1,183,127 persons** based on U.S. Census 2020 data **(See Exhibit 1).**
- Predicted population within the noise limited service contour served by the station's original ATSC 1.0 signal that will lose the station's ATSC 1.0 service as a result of the simulcasting arrangement, including identifying areas of service loss by providing a contour overlap map: **0 Persons (See Exhibits 6-7)**
- Will the ATSC 1.0 simulcast signal aired on the host station serve at least 95% of station's original ATSC 1.0 population? **Yes, it will serve 100% (See Exhibits 1, 6 & 7)**

Pursuant to §73.3801(c) of FCC Rules, full power broadcasters that elect temporarily to relocate their ATSC 1.0 signal to the facilities of a host station(s) for purposes of deploying ATSC 3.0 service must continue to cover the station's entire community of license with the ATSC 1.0 simulcast signal and must be assigned to the same Designated Market Area (DMA) as the originating station. Referring to Exhibits 3, 5, and 7, it can be seen that the KASY-TV ATSC 1.0 "Tenant" station will continue to completely encompass the Albuquerque, NM community of license with the KRQE F(50,90) 43.0 dBu "Host #1" station's principal community contour, the KWBQ F(50,90) 48.0 dBu "Host #2" station's principal community contour and the KOAT-TV F(50,90) 43.0 dBu "Host #3" station's principal community contour. Also pursuant to §73.3801(c) and §73.3801(d) of FCC Rules, the KASY-TV, KRQE, KWBQ and KOAT-TV stations are all assigned to the same DMA (Albuquerque, NM).

Accordingly, as demonstrated above and in enclosed Exhibits 1-7, the proposed KASY-TV "ATSC 1.0 Tenant" facility operating with an ATSC 1.0 signal and sharing frequencies with the KRQE, KWBQ and KOAT-TV "ATSC 1.0 Host" facilities (Coverage requirements for the ATSC 1.0 simulcast signal) and the proposed KRQE, KWBQ and KOAT-TV "ATSC 3.0 Tenant" facilities operating with an ATSC 3.0 signal and sharing frequencies with the KASY-TV "ATSC 3.0 Host" facility (Coverage requirements for ATSC 3.0 signals) fully satisfy the FCC rules pursuant to §73.3801 and these applications should therefore be granted with expedited processing in accordance with the streamlined 1-step process specified in the rules.

CERTIFICATION

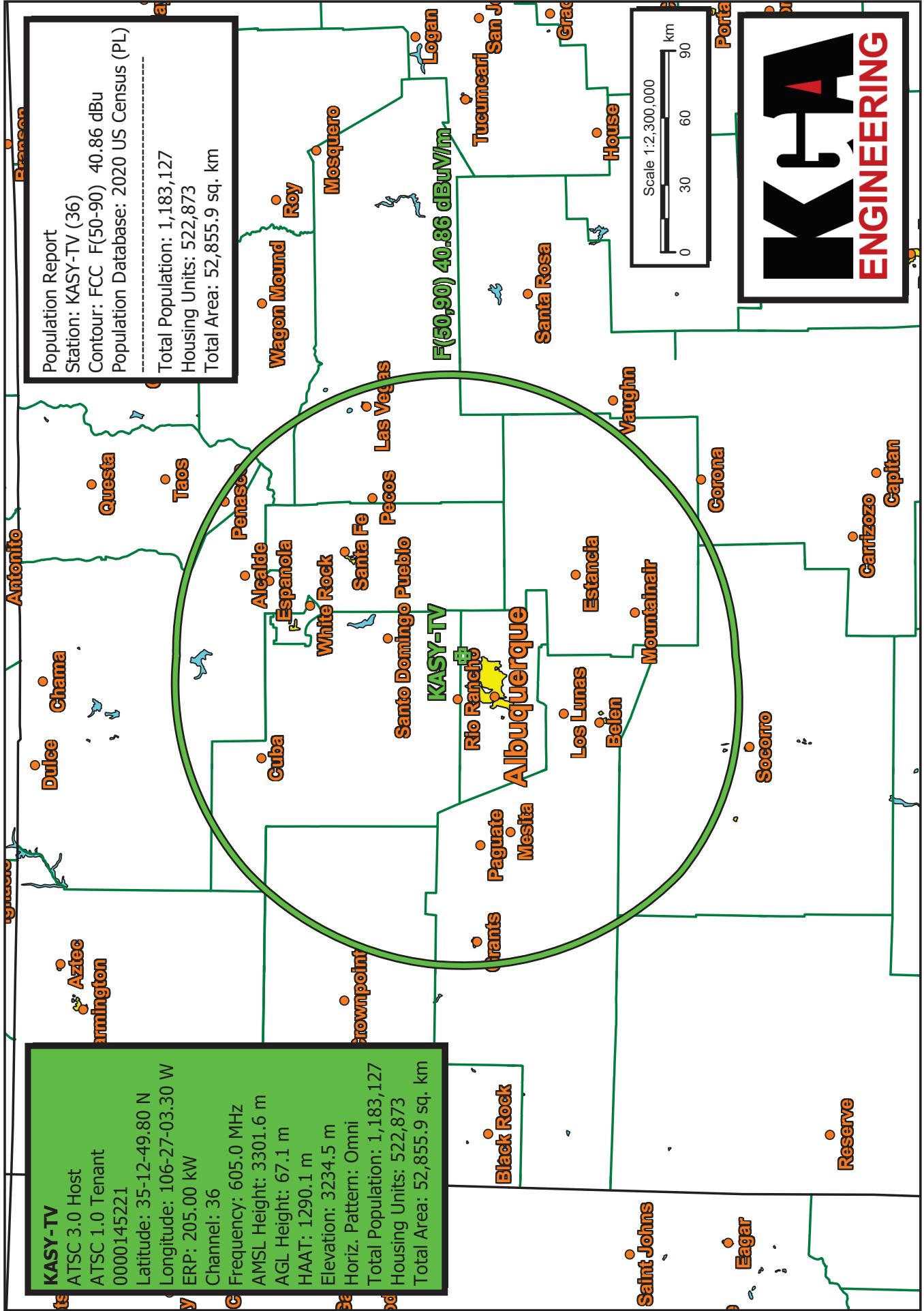
This technical statement was prepared by William T. Godfrey, Jr., Engineering Associate with the firm Kessler and Gehman Associates, Inc. having offices in Gainesville, Florida, and has been working with the firm in the field of radio and television broadcast consulting since 1998. Mr. Godfrey was a graduate from the University of North Florida and a Distinguished Military Graduate from the University of Florida. As a Professional in the field

of Telecommunications he states under penalty of perjury that the information contained in this report is true and correct to the best of his knowledge and belief.

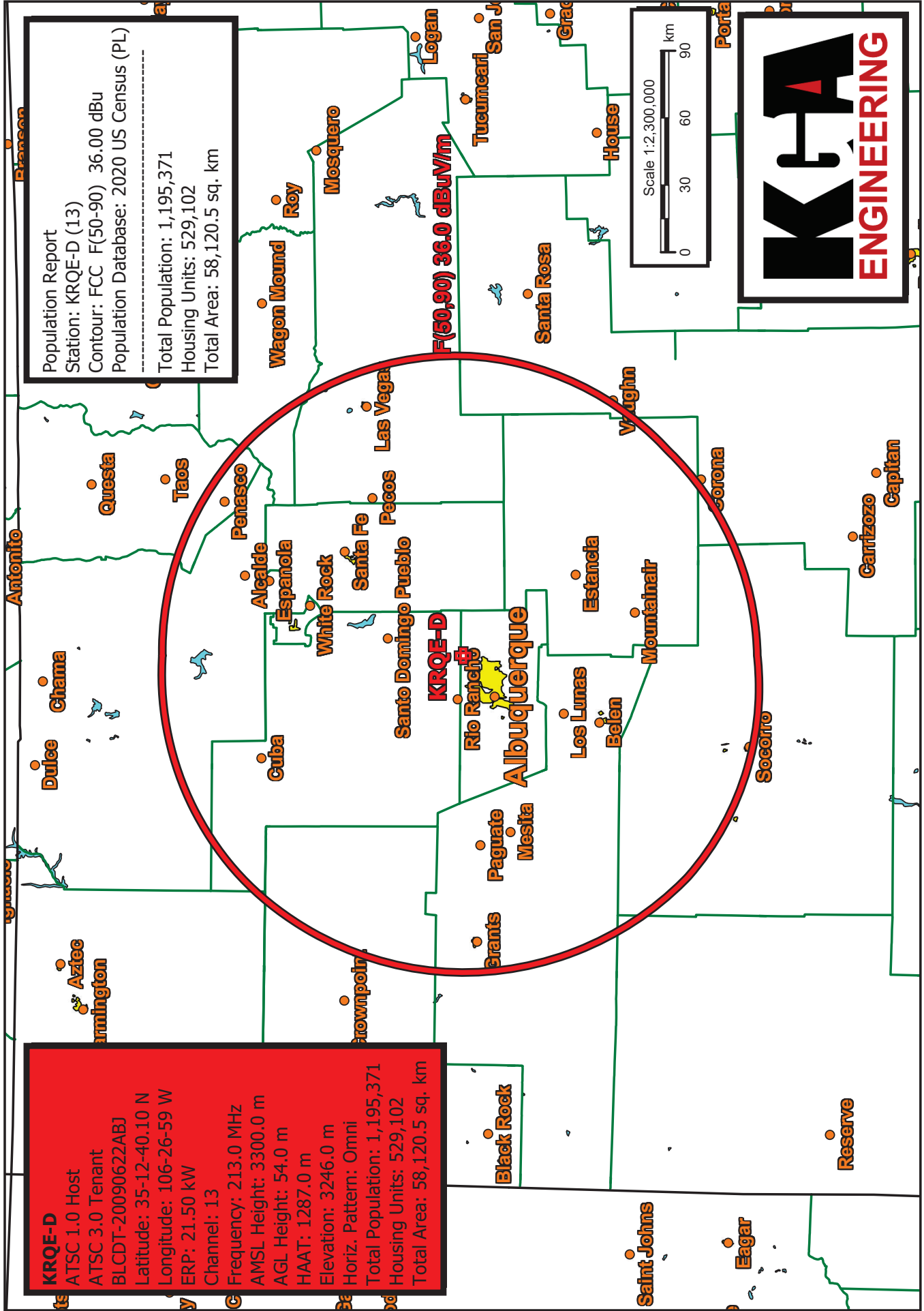

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Kessler and Gehman Associates, Inc.
Consulting Engineers

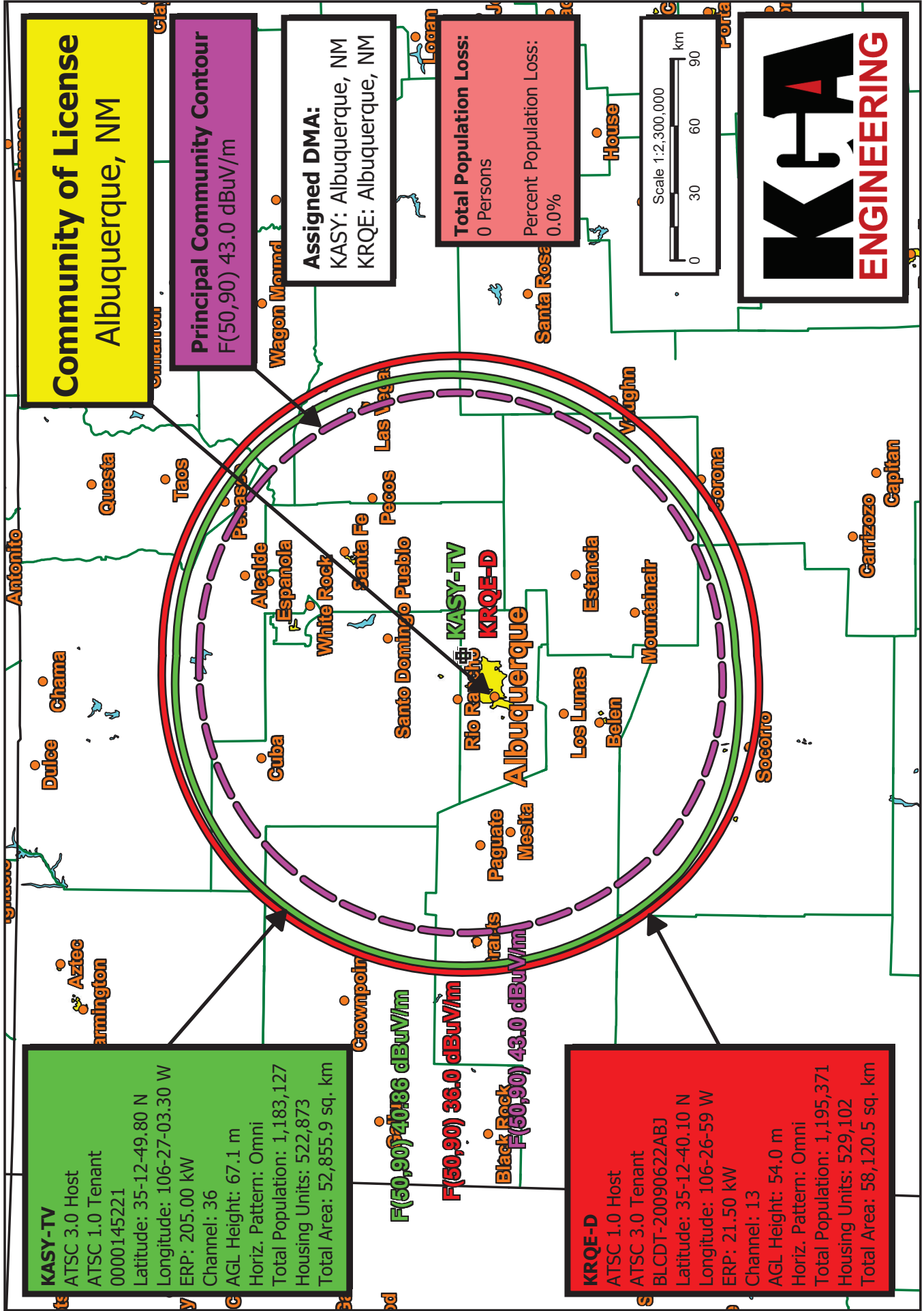
October 26, 2022



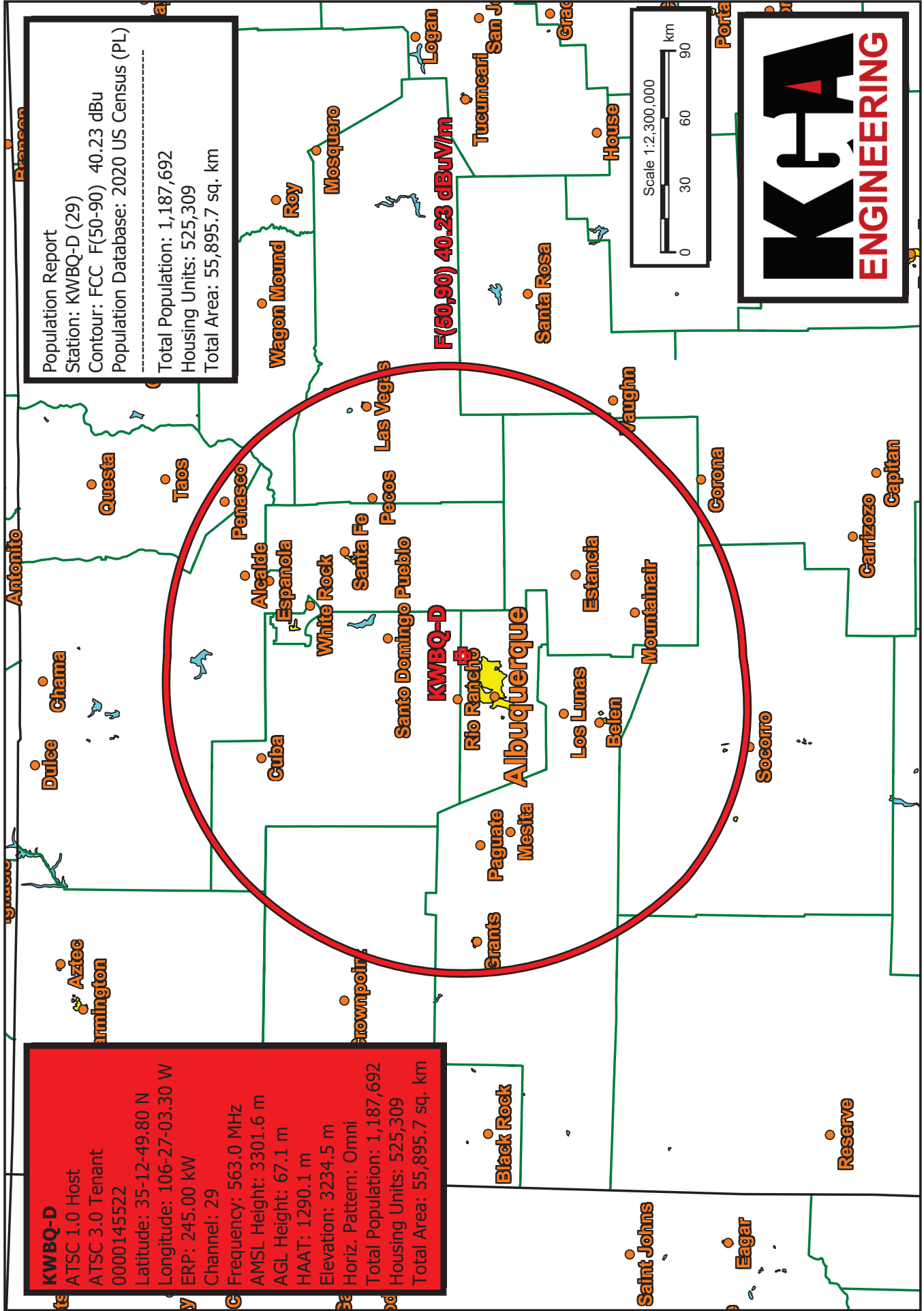
Population Within Licensed KASY-TV Protected Noise Limited Service Contour



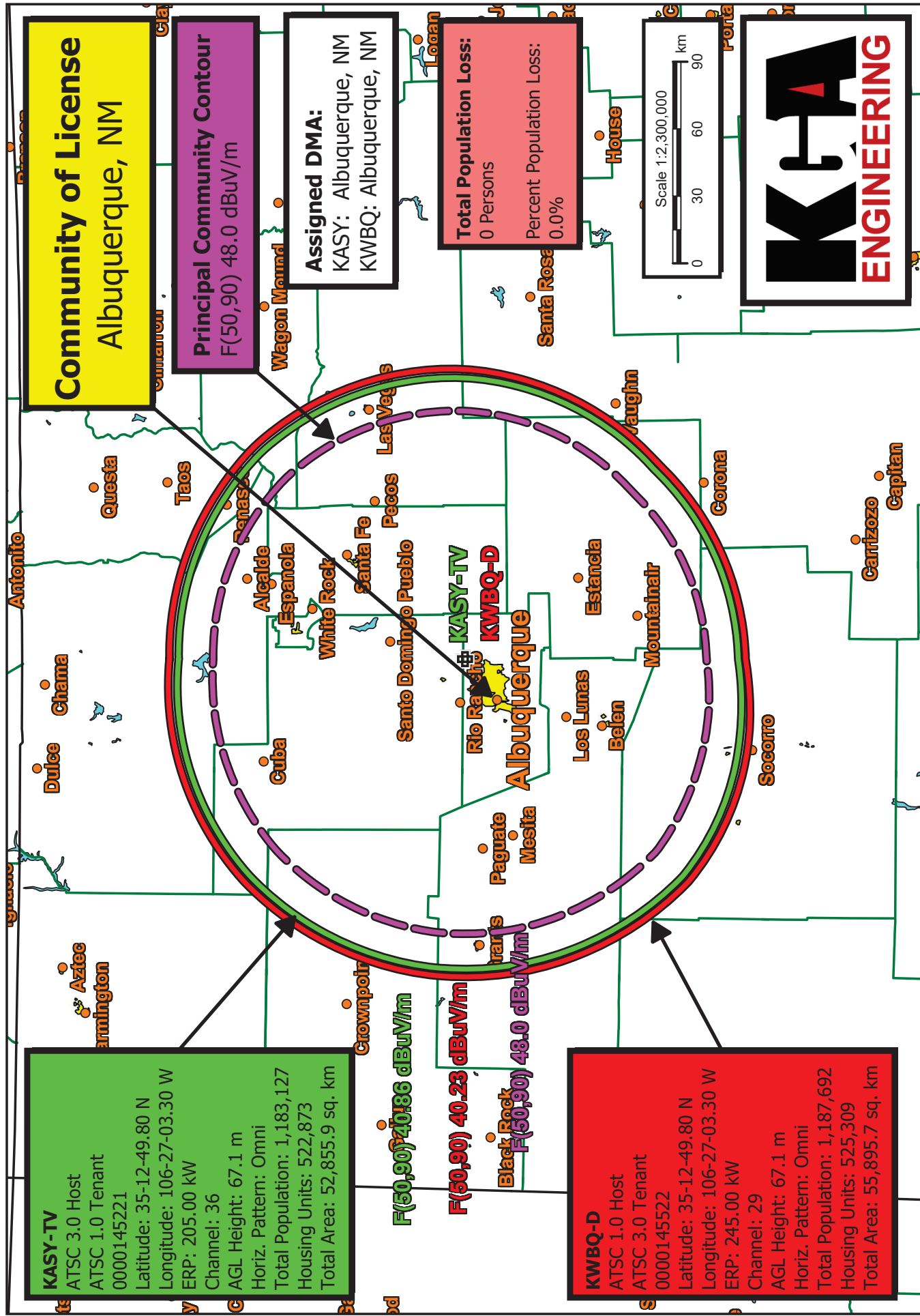
Population Within Licensed KRQE Protected Noise Limited Service Contour



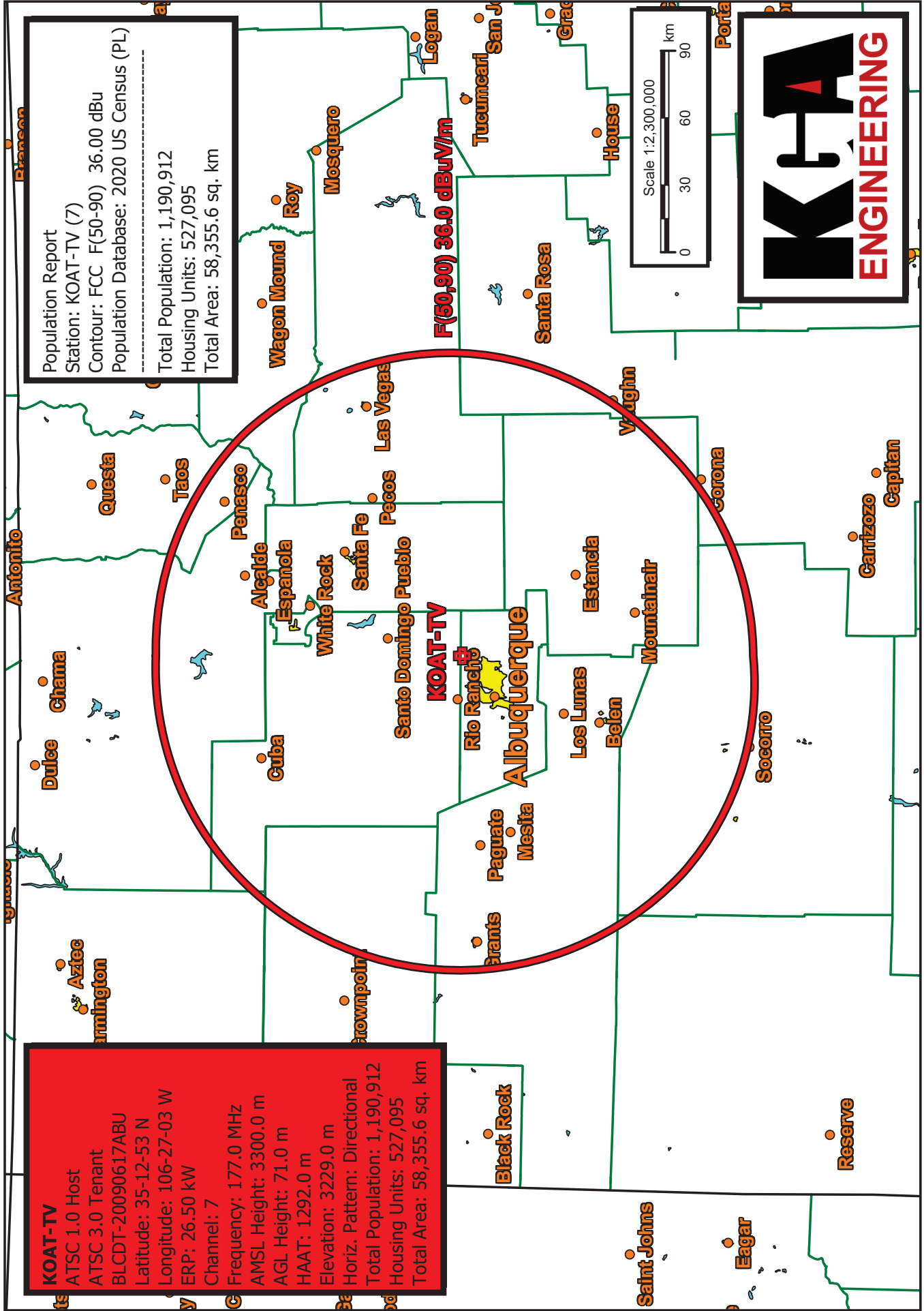
ATSC 1.0 Host: KRQE / ATSC 1.0 Tenant: KASY-TV (ATSC 3.0 Host)



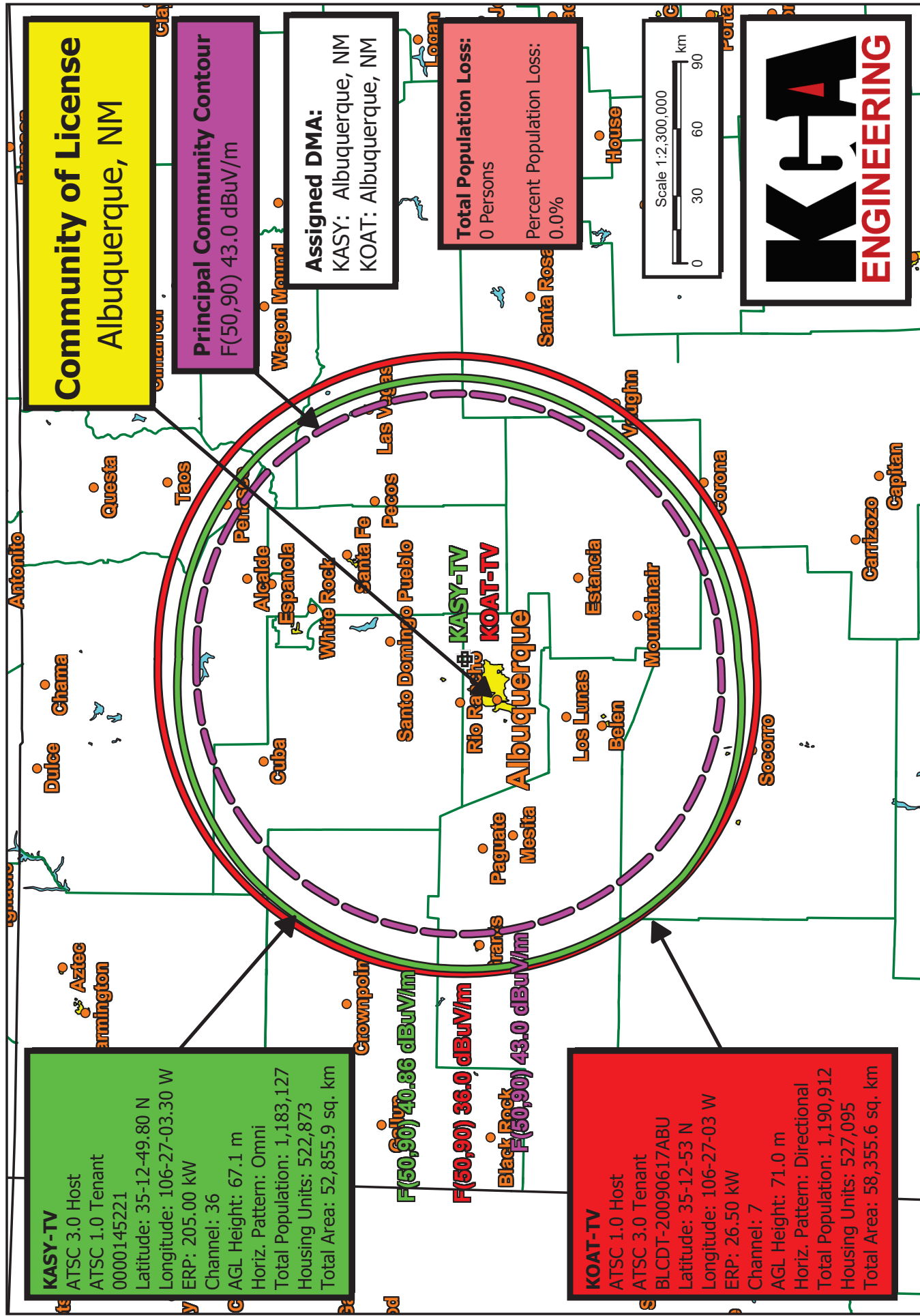
Population Within Licensed KWBQ Protected Noise Limited Service Contour



ATSC 1.0 Host: KWBO / ATSC 1.0 Tenant: KASY-TV (ATSC 3.0 Host)



Population Within Licensed KOAT-TV Protected Noise Limited Service Contour



ATSC 1.0 Host: KOAT-TV / ATSC 1.0 Tenant: KASY-TV (ATSC 3.0 Host)