

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

The **KSHV-TV** (ATSC 3.0 Host) full-power digital television broadcast facility (File Number 0000074895) is licensed to operate on Channel 16 with an ERP of 301 kW using a directional antenna mounted on a tower with Antenna Structure Registration Number (ASRN) 1022487 located in Mooringsport, LA. The **KMSS-TV** (ATSC 1.0 Host #1) full-power television facility (File Number BLCDDT-20050705AAB) is licensed to operate on Channel 34 with an ERP of 1,000 kW using a directional antenna mounted on a tower with ASRN 1022487 located in Mooringsport, LA and collocated with KSHV. The **KTAL-TV** (ATSC 1.0 Host #2) full-power television facility (File Number 0000073076) is licensed to operate on Channel 26 with an ERP of 888 kW using a nondirectional antenna mounted on a tower with ASRN 1025912 located in Vivian, LA. The **KSLA-D** (ATSC 1.0 Host #3) full-power television facility (File Number 0000120697) is licensed to operate on Channel 23 with an ERP of 190 kW using a nondirectional antenna mounted on a tower with ASRN 1019627 located in Mooringsport, LA.

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:

- KSHV-TV ATSC 1.0 Tenant at KMSS-TV ATSC 1.0 Host
- KSHV-TV ATSC 1.0 Tenant at KTAL-TV ATSC 1.0 Host
- KSHV-TV ATSC 1.0 Tenant at KSLA-D ATSC 1.0 Host
- KMSS-TV, KTAL-TV & KSLA-D ATSC 3.0 Tenants at KSHV-TV ATSC 3.0 Host

All four stations are assigned to the same DMA (Shreveport, LA).

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: KMSS-TV (BLC DT-20050705AAB)
- ATSC1.0 Host #2: KTAL-TV (0000073076)
- ATSC1.0 Host #3: KSLA-D (0000120697)

## **Technical Facilities of ATSC 1.0 Host #1 Station:**

- Station: KMSS-TV
- Frequency: 593 MHz (Channel 34)
- ERP: 1,000 kW
- Antenna: Directional
- Antenna Center Height: 533.0 m AGL
- Antenna: Andrew Model ATW-27H5-ETP1L-33M
- Antenna Polarization: Elliptical
- Antenna Beam Tilt: 0.75°
- Coordinates: 32° 39' 58.5" N, 093° 56' 00.7" W
- ASRN: 1022487
- DMA: Shreveport, LA (all stations)

## **Technical Facilities of ATSC 1.0 Host #2 Station:**

- Station: KTAL-TV
- Frequency: 545 MHz (Channel 26)
- ERP: 888 kW
- Antenna: Nondirectional
- Antenna Center Height: 464.6 m AGL
- Antenna: Dielectric Model TFU-29JTH/VP-R O6
- Antenna Polarization: Elliptical
- Antenna Beam Tilt: 0.75°
- Coordinates: 32° 54' 11.0" N, 094° 00' 21.0" W
- ASRN: 1025912
- DMA: Shreveport, LA (all stations)

**Technical Facilities of ATSC 1.0 Host #3 Station:**

- Station: KSLA-D
- Frequency: 527 MHz (Channel 23)
- ERP: 190 kW
- Antenna: Nondirectional
- Antenna Center Height: 526.8 m AGL
- Antenna: Dielectric Model TFU-18GTH/VP-R O4
- Antenna Polarization: Elliptical
- Antenna Beam Tilt: 0.75°
- Coordinates: 32° 40' 28.3" N, 093° 56' 00.0" W
- ASRN: 1019627
- DMA: Shreveport, LA (all stations)

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

**KSHV-TV ATSC 1.0 Tenant at KMSS-TV ATSC 1.0 Host**

- Predicted population within the noise limited service contour served by the station's original ATSC 1.0 signal: **924,250 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).**

**KSHV-TV ATSC 1.0 Tenant at KTAL-TV ATSC 1.0 Host**

- Predicted population within the noise limited service contour served by the station's original ATSC 1.0 signal: **924,250 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: **12,247 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 98.7% (See Exhibits 1, 4, 5)**

**KSHV-TV ATSC 1.0 Tenant at KSLA-D ATSC 1.0 Host**

- Predicted population within the noise limited service contour served by the station's original ATSC 1.0 signal: **924,250 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: **1,542 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 99.8% (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 KSHV-TV ATSC 1.0 "Tenant" station will continue to completely encompass its assigned Shreveport, LA community of license with the KMSS-TV F(50,90) 48.0 dBu "Host #1" station's principal community contour, the KTAL-TV F(50,90) 48.0 dBu "Host #2" station's principal community contour and the KSLA-D F(50,90) 48.0 dBu "Host #3" station's principal community contour. Also pursuant to §73.3801(c) and §73.3801(d) of FCC Rules,

the KSHV-TV, KMSS-TV, KTAL-TV, and KSLA-D stations are all assigned to the same DMA (Shreveport, LA).

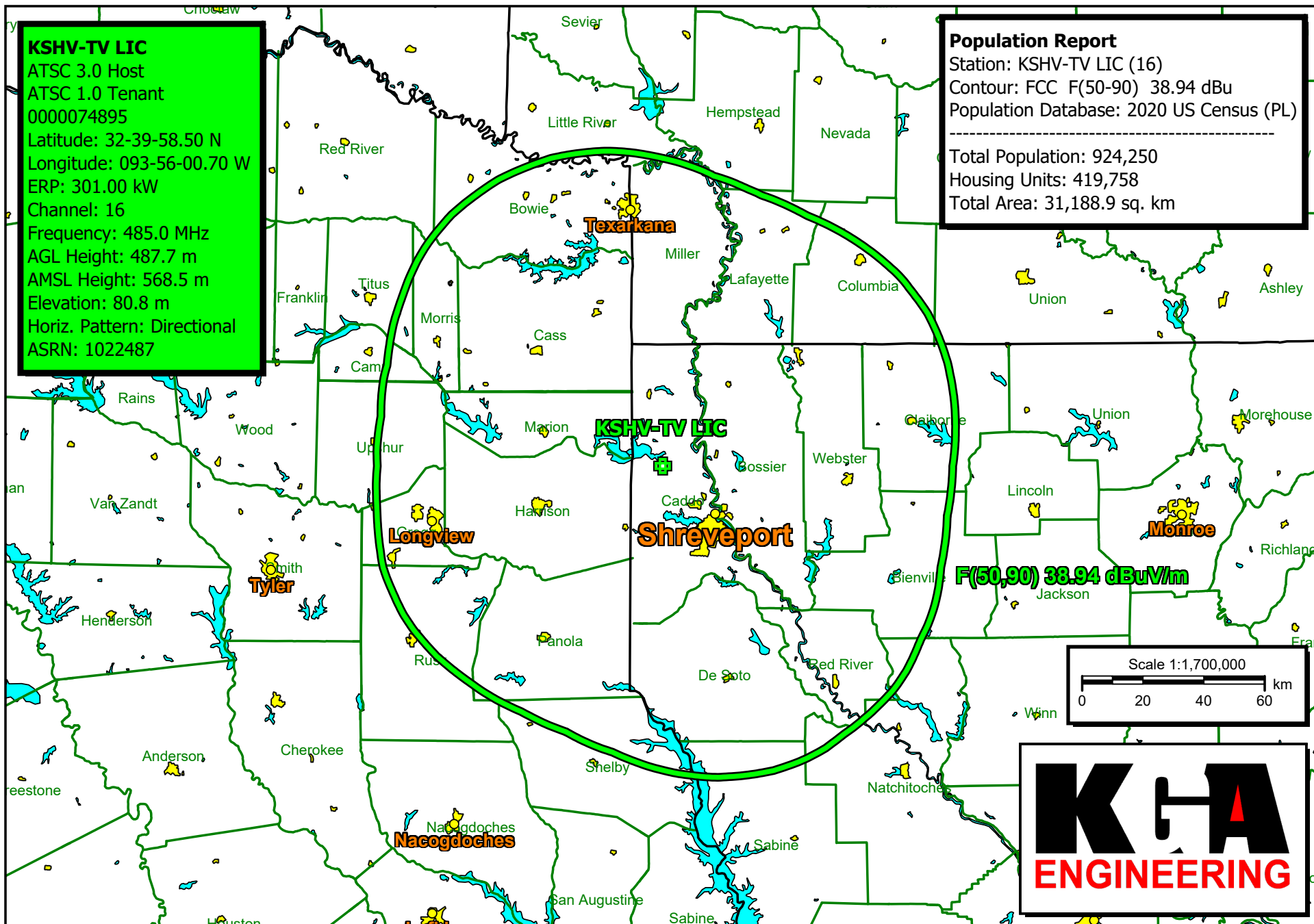
Accordingly, as demonstrated above and in enclosed Exhibits 1-7, the proposed KSHV-TV “ATSC 1.0 Tenant” facility operating with an ATSC 1.0 signal and sharing frequencies with the KMSS-TV, KTAL-TV and KSLA-D “ATSC 1.0 Host” facilities (Coverage requirements for the ATSC 1.0 simulcast signal) and the proposed KMSS-TV, KTAL-TV and KSLA-D “ATSC 3.0 Tenant” facilities operating with an ATSC 3.0 signal and sharing frequencies with the KSHV-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**

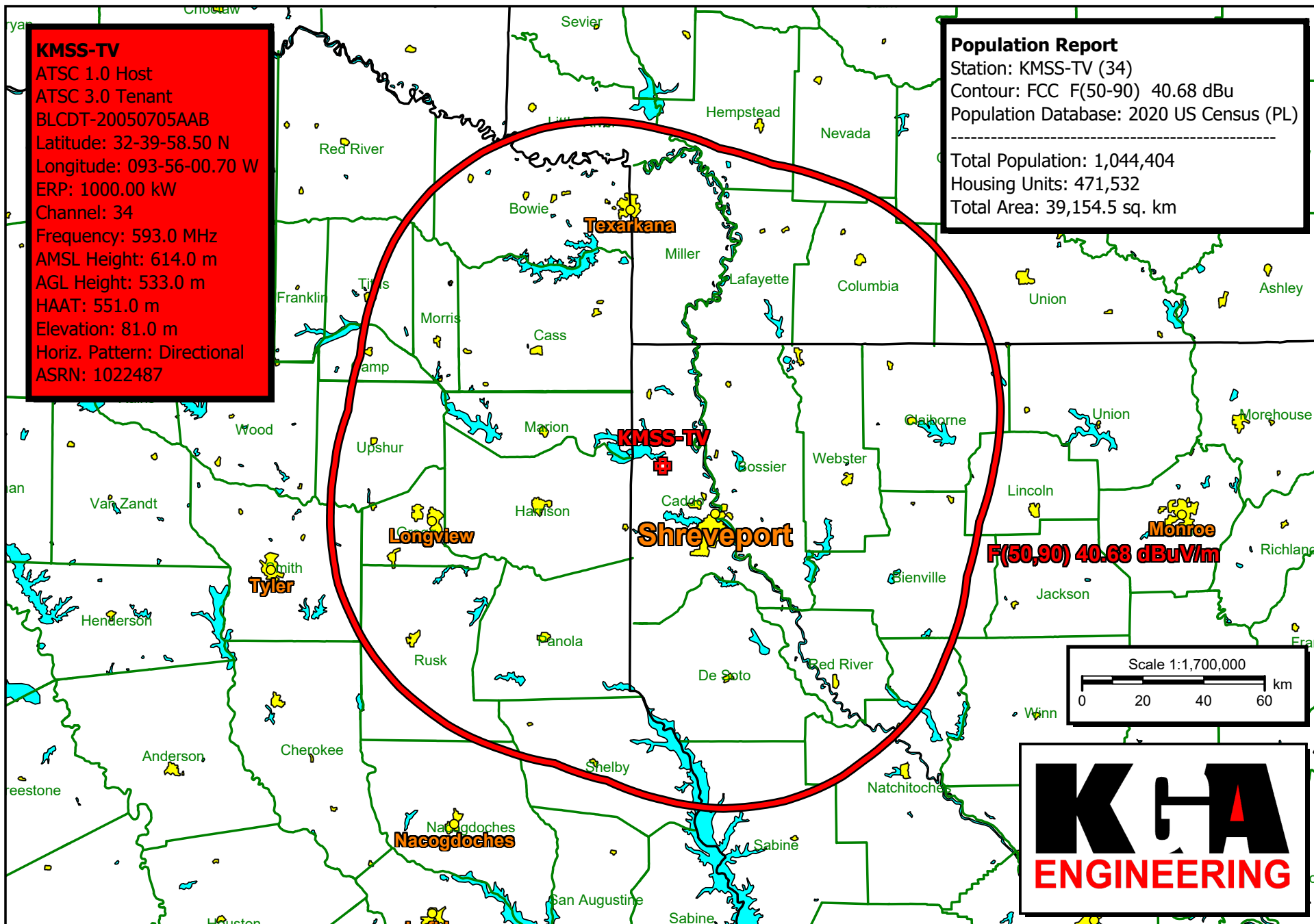
This technical statement was prepared by William T. Godfrey, Jr., Engineering Associate with the firm Kessler and Gehman Associates, Inc. having offices in Gainesville, Florida, and has been working with the firm in the field of radio and television broadcast consulting since 1998. Mr. Godfrey was a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

  
WILLIAM T. GODFREY, JR., CBT  
Kessler and Gehman Associates, Inc.  
Consulting Engineers

May 20, 2022

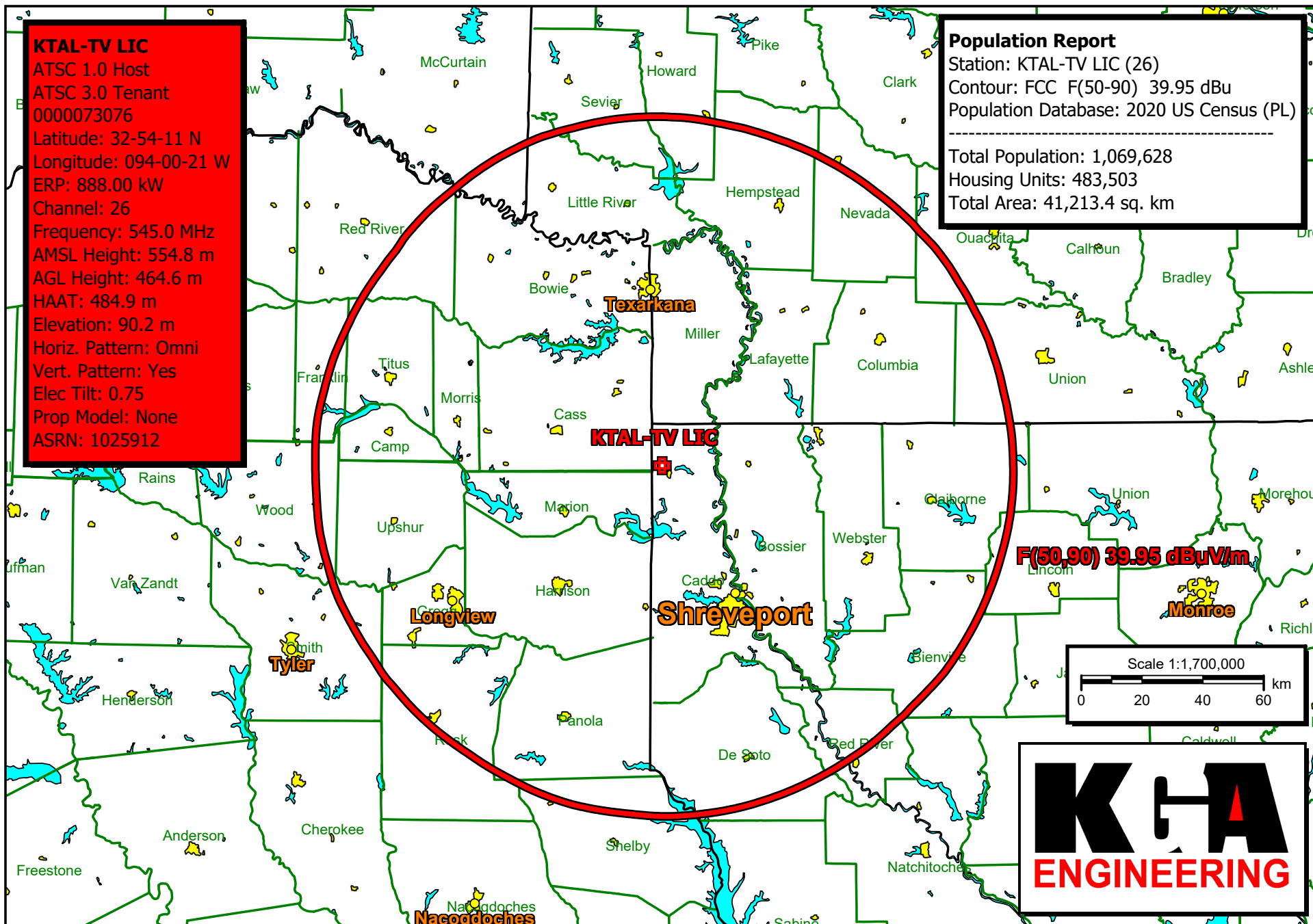


Population Within Licensed KSHV-TV Channel 16 Protected Noise Limited Contour



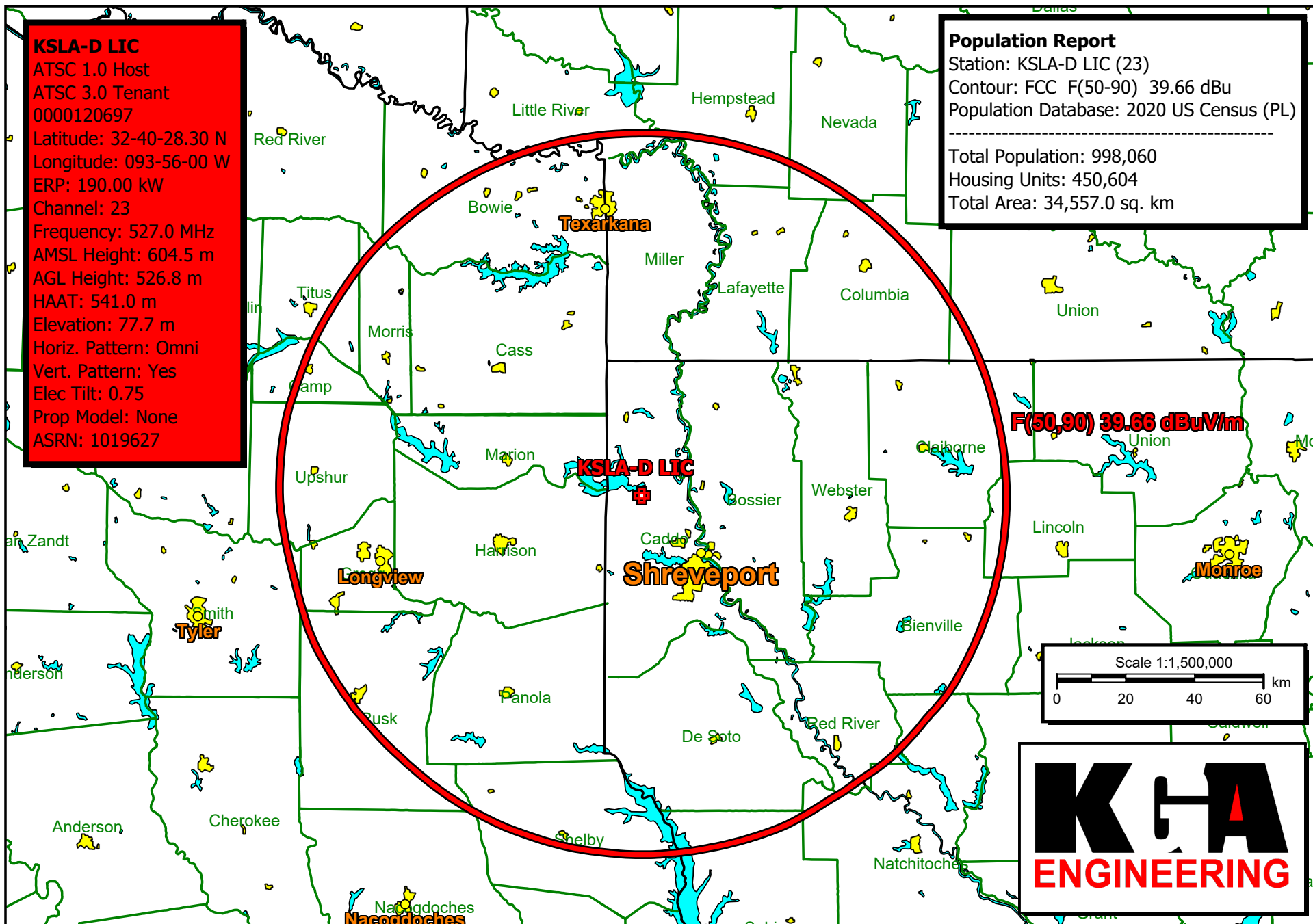
Population Within Licensed KMSS-TV Channel 34 Protected Noise Limited Contour

## EXHIBIT 3



Population Within Licensed KTAL-TV Channel 26 Protected Noise Limited Contour

## EXHIBIT 5



Population Within Licensed KSLA-D Channel 23 Protected Noise Limited Contour

## EXHIBIT 7