

TECHNICAL EXHIBIT
MINOR MODIFICATION APPLICATION
AUXILIARY STATION KONO-FM (FACILITY ID 50030)
HELOTES, TEXAS
CH 266C1 1.3 KW 265 M

Technical Narrative

The technical exhibit of which this narrative is part was prepared on behalf of radio station KONO-FM at Helotes, Texas. The KONO-FM main facility is presently licensed on Channel 266C1 with an effective radiated power of 98 kilowatts and antenna height above average terrain of 302 meters.¹ KONO-FM has an authorization for auxiliary operation (BXPB-20051114AFY). By this instant application, KONO-FM proposes to modify the auxiliary permit by lowering the antenna height 7.6 meters (25 feet). The FCC tower number for the existing antenna mounting structure is 1051212. It is believed that this proposal conforms to all applicable rules and regulations of the FCC.

Transmitter Location

The herein proposed auxiliary facility will utilize an ERI SHPX-4AC-SP, 4-bay antenna mounted on same tower as the main KONO-FM antenna. The proposed antenna is located at the 297.2 meter (975 feet) level (see Figure 1).

Blanketing Contour

The 115 dBu predicted blanketing contour of the station would extend radially 0.4 kilometer from the transmitting site. The applicant recognizes its responsibility to resolve complaints of blanketing interference as required by Section 73.318.

¹ See FCC File No. BMLH-20001010ACP

Coverage Contours

The predicted 60 dBu coverage contours for the auxiliary operation and the existing main operation were calculated in accordance with the provisions of Section 73.313. In accordance with current FCC practice, the distances to the contours were calculated without consideration given to terrain roughness correction factors.

The average terrain elevations from 3 to 16 kilometers along eight radials evenly spaced at 45 degree intervals were obtained from the National Geophysical Data Center's (NGDC) 30-second terrain database. The terrain elevations were then used in combination with the effective radiated power for determining the distances to coverage contours.

Figure 2 is a map showing the predicted 60 dBu coverage contours for the licensed and proposed operations. As the map illustrates, the predicted auxiliary's 60-dBu contour is entirely encompassed by the primary station's 60-dBu contour.

Radiofrequency Electromagnetic Field Exposure

The proposed KONO-FM auxiliary facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The radiation center for the proposed ERI "rototiller" type 4 bay antenna is located 297.2 meters above ground level. The effective radiated power is 2.6 kilowatts (combined horizontal and vertical polarizations). Using the FCC's FM Model program, the worst-case ground level power density is approximately 0.0002 mW/cm². This is less than five percent of the Commission's guideline in an uncontrolled environment for an FM radio station.²

² The FCC maximum guideline for a FM broadcast station in an uncontrolled environment is 0.2 mW/cm².

Access to the transmitting site is restricted and appropriately marked with warning signs. In the event that workers or other authorized personnel enter restricted areas or climb the tower or any nearby adjacent towers, appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the stations are at reduced power or shut down.

It is noted that this technical exhibit only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be provided to the FCC by the tower owner as part of the tower registration process.

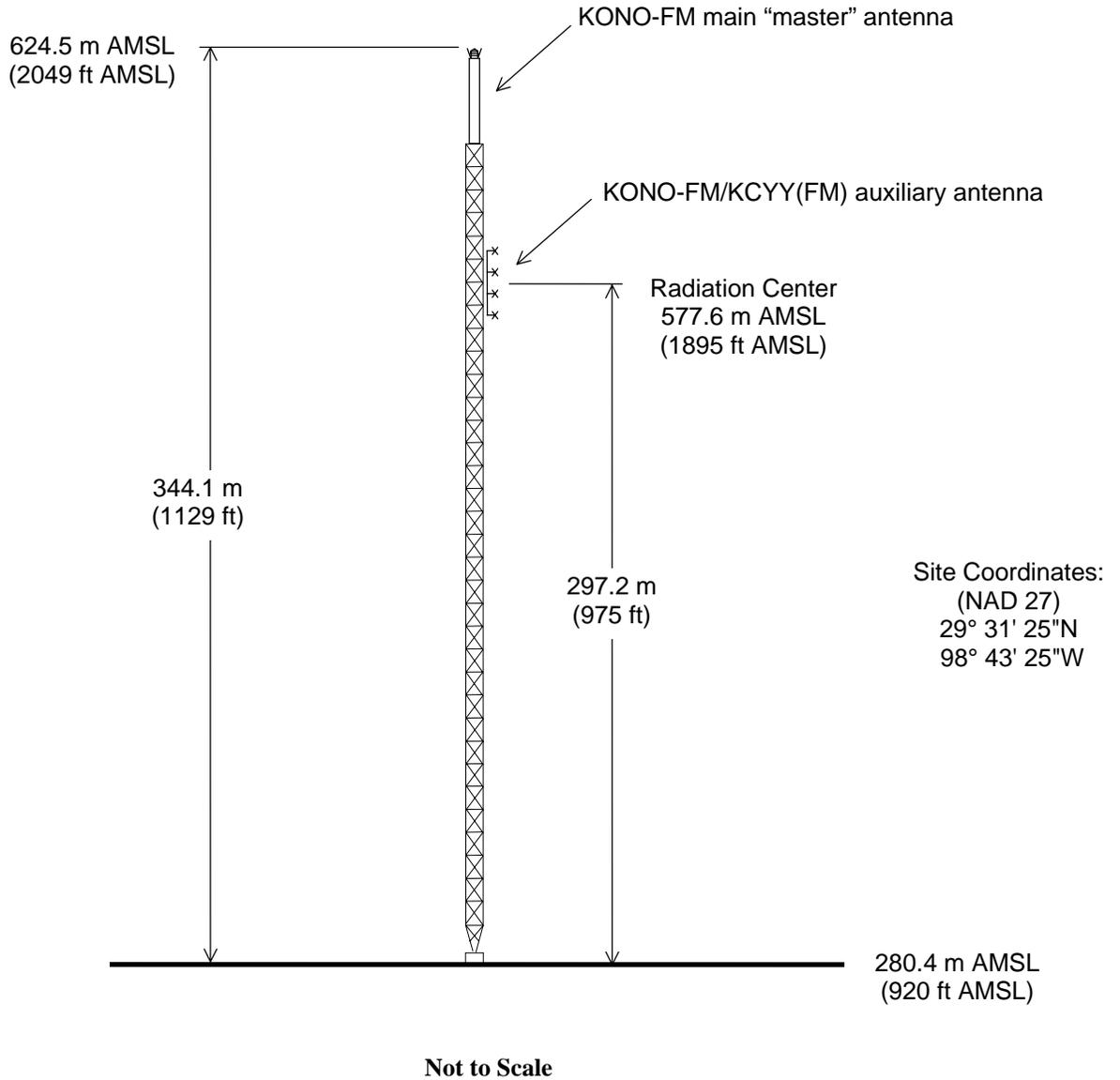


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ASRN: 1051212



ANTENNA AND SUPPORTING STRUCTURE

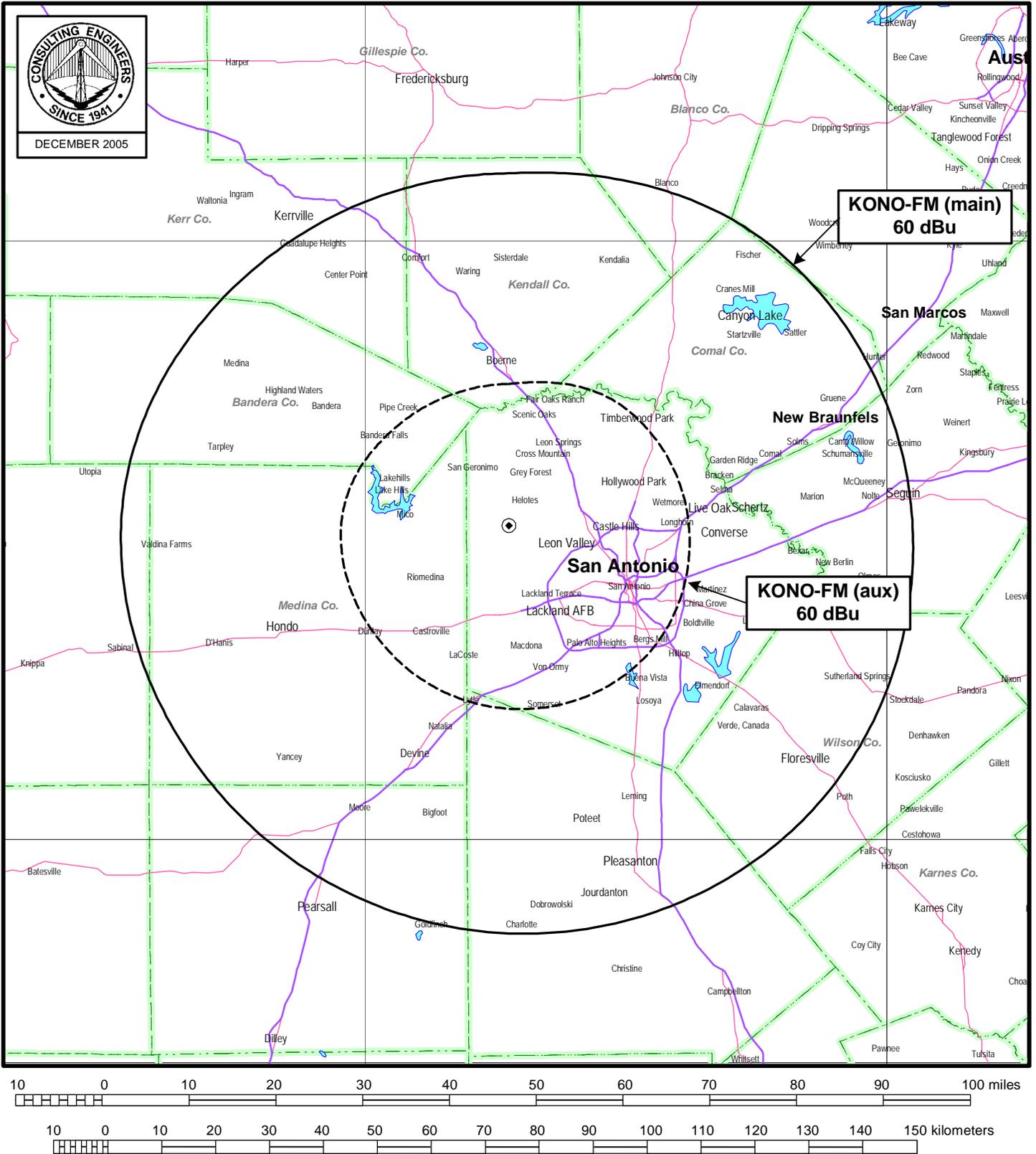
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Figure 2



PREDICTED COVERAGE CONTOURS

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