



Application for Minor Change
Translator K271BW Lubbock TX
FCC Facility ID 142374

TECHNICAL EXHIBITS

This technical exhibit is prepared on behalf of *Grace Community Church of Amarillo*, Licensee of Translator K271BW Lubbock TX. This instant application requests a minor modification of the facility at a new tower location, height and effective radiated power on the authorized channel with a non-directional FM antenna.

CONTOUR OVERLAP REQUIREMENTS

The attached maps of contours depict the proposed allocation situation with respect to all pertinent co-channel and adjacent channel facilities. All facilities have been depicted utilizing either the maximum ERP or directional pattern data as on file with the commission. AAT data for the proposed facility was derived from the FCC's 30 second database, *ComStudy*.

As seen on the attached maps of contours, channel 271-D is operable at the proposed location with the following facility notes:

- In compliance with 47 CFR 74.1204(g) the proposed facility operates at an effective radiated power which is not over 100 watts, therefore protection to intermediate frequency facilities has not been calculated.
- The proposed location is within the protected 60dbu (50,50) contour of third-adjacent station KONE (FM) channel 266-C1 located 15.86 km away. Therefore, an interference analysis has been conducted based on the u/d ratio of +40 dB at the proposed site. The signal of KONE (FM) at the proposed location is 91.0dBu (50,50) making the relevant interfering contour of the proposed facility 131.0 dBu (50,10). The free space distance to this contour in a worse-case scenario utilizing a single dipole antenna is 13.9 meters. The proposed antenna

height is 60 meters above ground making the interfering contour incapable of reaching the general public.

Based on this showing, a waiver of Section 74.1204 is requested in accordance with *Living Way ministries*, Inc. (FCC 08-242) on the basis of zero population in the area of interference.

It should be noted that should any actual real world interference occur, the applicant acknowledges that it will promptly suspend operation of this translator in accordance with 47 c.f.r. 74.1203.

ENVIRONMENTAL PROTECTION ACT

Section 1.1307(b)(1) of the Commission's rules exempts FM translators and boosters operating with an effective radiated power of 100 watts or less from the requirement to submit an environmental assessment to determine compliance with FCC specified guidelines for human exposure to radiofrequency radiation. The applicant proposes operation with an effective radiated power of 50 watts and therefore no calculations have been submitted.

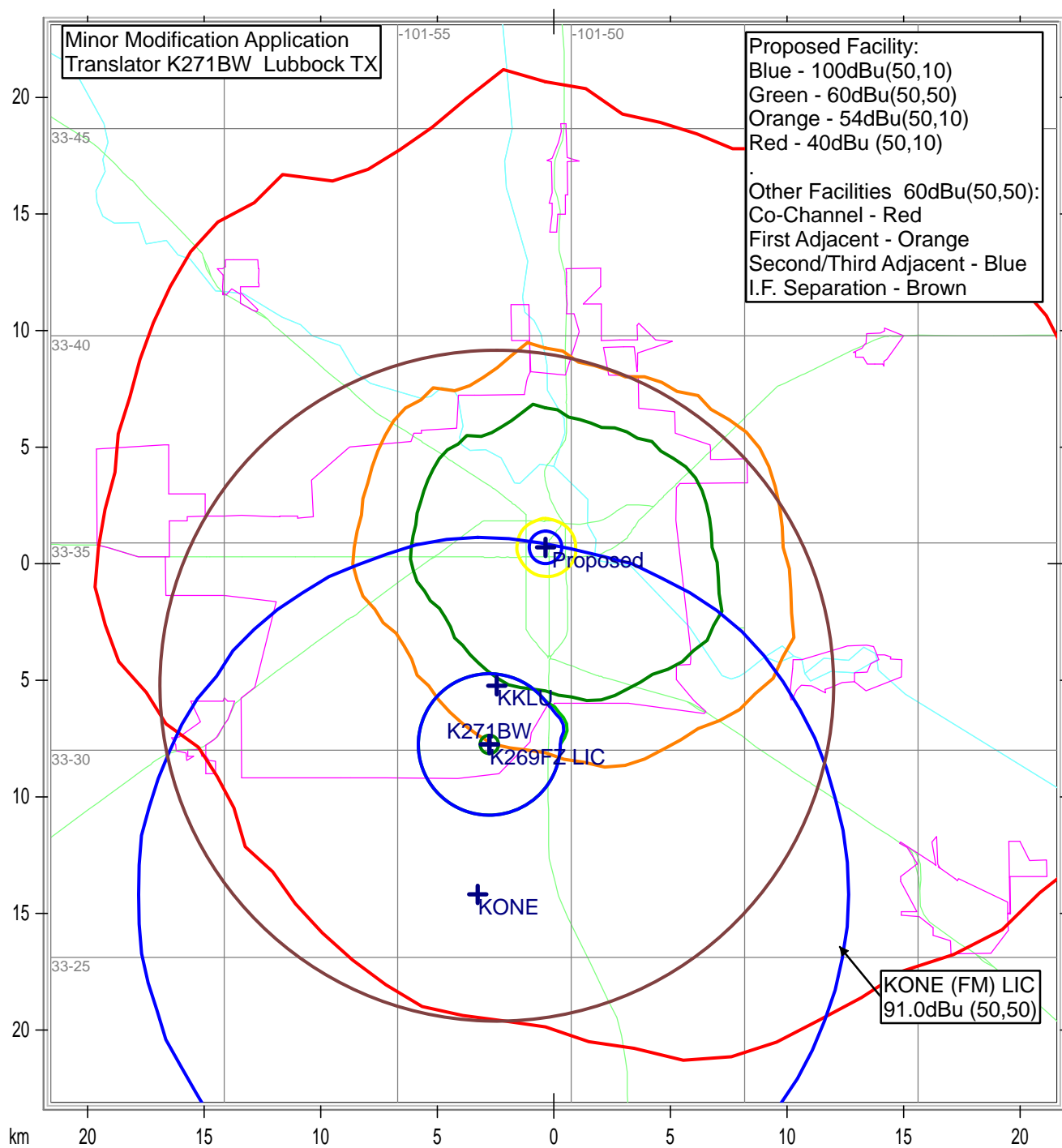
The applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

Respectfully,

A handwritten signature in black ink, appearing to read "Jim Turvaille". The signature is fluid and cursive, with the first name "Jim" and last name "Turvaille" clearly distinguishable.

Jim Turvaille, Owner
Turbo Tech Services
Certified Radio Engineer – Consultant

Attachments:
Map of Contours



— State Borders
 — City Borders
 — Highways
 — Water Features
 — Lat/Lon Grid