



Application for Minor Change
Translator K203FL Borger TX
FCC Facility ID 154856

TECHNICAL EXHIBITS

This technical exhibit is prepared on behalf of *Grace Community Church of Amarillo*, Licensee of Translator K203FL Borger TX. This instant application requests a minor modification of operating frequency at the authorized tower location, height and increased effective radiated power with the authorized FM antenna.

CONTOUR OVERLAP REQUIREMENTS

The attached maps of contours and channel study 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 204-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 KVAS (FM) channel 201-A located 9.5 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 KVAS (FM) at the proposed location is 68.0 dBu (50,50) making the relevant interfering contour of the proposed facility 118.0 dBu (50,10). The free space distance to this contour in a worse-case scenario utilizing a single dipole antenna is 68.5 meters. The proposed antenna height is 73 meters above ground making the interfering contour incapable of reaching

the general public. The tower location is extremely rural and restricted access within several hundred meters.

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 75 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,

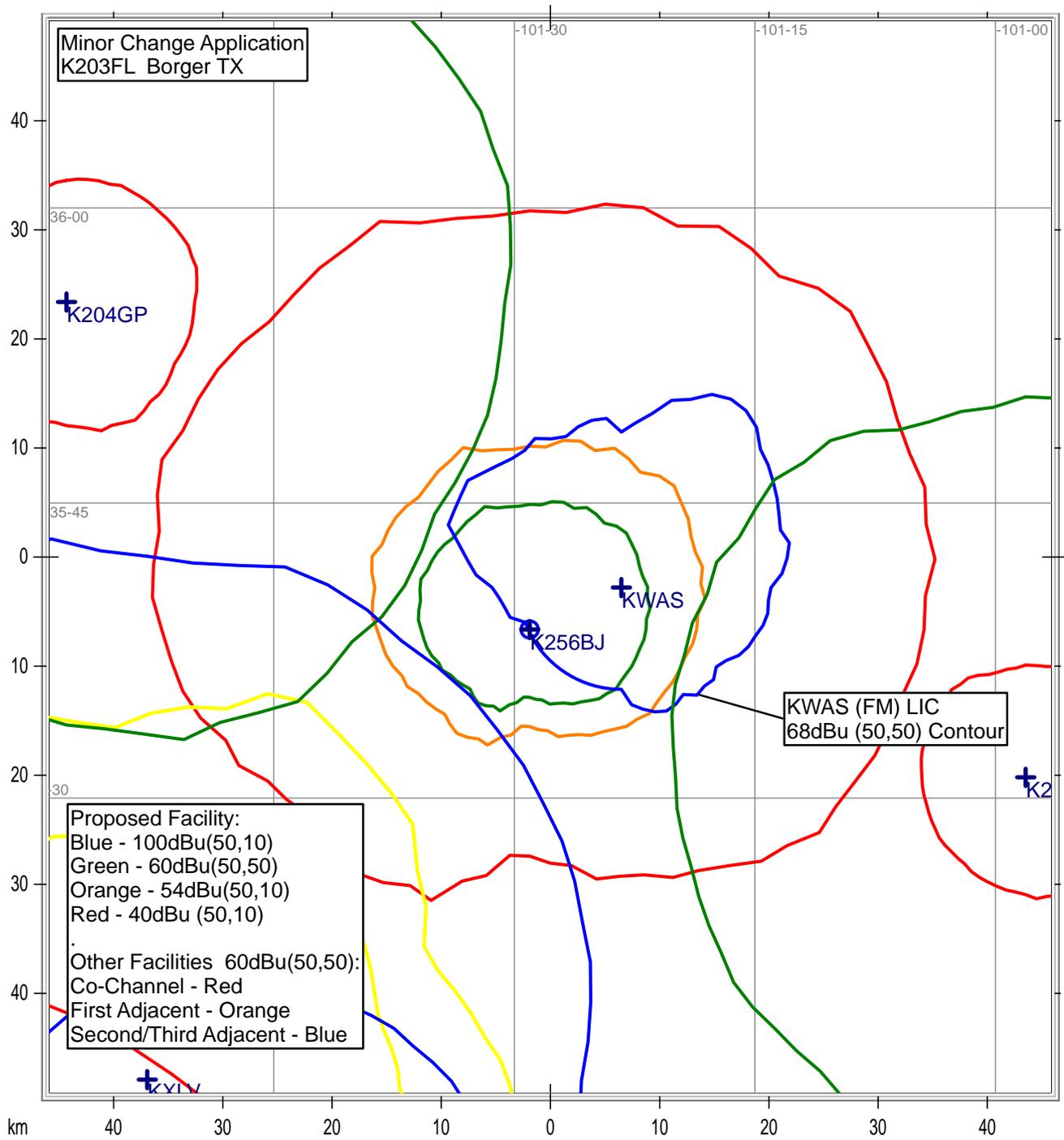
A handwritten signature in black ink that reads "Jim Turvaille". The signature is fluid and cursive, with the first name "Jim" and last name "Turvaille" clearly legible.

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

Attachments:
Channel Study Data
Map of Contours

ComStudy 2.2
 Search of channel 204
 (88.7 MHz Class D)
 at
 35-38-34.2 N, 101-29-02.6 W.

CALL	CITY	ST CHN CL	DIST	SEP	BRNG	CLEARANCE
KWAS	BORGER	TX 201 A	9.49	0.00	65.3	-10.96 dB
	Adjacent Channel Waiver	Requested in Narrative				
KBEX-LP	AMARILLO	TX 6 TV	56.62	0.00	214.8	-0.00 dB
K204GP	DUMAS	TX 204 D	53.31	0.00	305.5	0.33 dB
K204GO	PAMPA	TX 204 D	48.76	0.00	106.5	1.52 dB
KXLV	AMARILLO	TX 206 C2	55.61	0.00	220.4	3.68 dB
KRBG	UMBARGER	TX 204 C1	107.35	0.00	219.7	10.61 dB
KRBG	UMBARGER	TX 204 C3	107.35	0.00	219.7	16.55 dB
KJRT	AMARILLO	TX 202 C3	66.21	0.00	207.6	19.67 dB
K204GQ	DALHART	TX 204 D	103.37	0.00	296.7	19.66 dB
KNGM	GUYMON	OK 205 C3	114.38	0.00	0.6	25.41 dB
KSYE	CARTER	OK 204 C2	171.07	0.00	99.7	27.91 dB
K204FP	CHILDRESS	TX 204 D	182.94	0.00	139.3	33.68 dB
KYCL-FM	CLARENDON	TX 205 A	94.12	0.00	145.3	34.64 dB
K204EQ	WOODWARD	OK 204 D	203.42	0.00	64.8	38.34 dB



— Lat/Lon Grid