

DELAWDER COMMUNICATIONS, INC.

P.O. Box 1095
Ashburn, Virginia 20146-1095
(703) 299-9222

ENGINEERING REPORT

K235CC, Plainview, TX, Channel 235D FM Application

ENGINEERING STATEMENT

Christina G. Benavides ("Applicant") proposes a site move for its FM translator CP at Plainview, TX (K235CC).

CHANNEL STUDY

Attached as Table EE1 is a channel study for the proposed channel 235D facility. All required protections are met by contour non-overlap pursuant to Section 74.1204 (or by Section 73.207 separation requirements for channel above 220, when applicable), with the exception of protection to KFMX-FM, Lubbock, TX, 233C1 and KAIQ(FM), Wolfforth, TX, 238C1. KFMX-FM and KAIQ are protected, as discussed below.

PROTECTION TO KFMX-FM and KAIQ(FM)

KAIQ, Wolfforth, TX, 238C1 and KFMX-FM, Lubbock, TX, 233C1 (both at 61.2 kilometers at 187 degrees True from translator site) are second or third adjacent-channel stations to the proposed channel 235 LPFM facility. The 60 dBu F50,50 service contours of each extends beyond the proposed translator site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KAIQ or KFMX-FM.

Note that a rule waiver of Section 74.1204 for this second/third adjacent-channel protection using the well-established *Living Way Ministries* Methodology is respectfully requested if such a rule waiver is deemed necessary for protection to any station.

The F50,50 signal strength from KAIQ at the proposed translator site is greater than 61 dBu (the "desired" signal for KAIQ). The F50,50 signal strength from KFMX-FM at the proposed translator site is greater than 63 dBu (the "desired" signal for KFMX-FM). The second/third adjacent-channel protection is an undesired-to-desired ("U/D")

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dB signal strength ratio of 40:1. Therefore, predicted interference to the worst-case of the above two protected facilities is from that of KAIQ and is a FM translator signal of greater than or equal to 101 dBu.

The 101 dBu signal based on a free space field determination is predicted to extend out to 444 meters from the proposed 235D transmitter site. As shown by the attached aerial photograph of the proposed site (Figure EE2), *there is no population located within the 101 dBu interfering contour distance of 444 meters.* (The nearest home is 472 meters away.) Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KAIQ and KFMX-FM are adequately protected by the proposed facility.

SECTION 74.1204 CHANNEL STUDY**PROJECT: PLAINVIEW, TX, 235D FROM PROPOSED SITE****STUDY COORDINATES: N 34-03-56.0; W 101-46-36.0 (N D-M-S; W D-M-S)**

Call	Channel	Class	Frequency	Status	City	State	Country	File Number
Docket	FacilityID	Service	ERP	DA?	HAAT	RCAMSL	RCAGL	
Latitude	Longitude			ASRN	Dist (km)	Dist (mi)	Azimuth	
Licensee/Permittee								
KFMX-FM	233	C1 FM	94.5 MHz	LIC	LUBBOCK	TX	US	BMLH-20121002ACQ
-	60799		100. kW		249. m	1224. m	242. m	
N 33 31	4.10	W 101 51	23.00	1050308	61.20 km	38.03 mi	186.92°	
TOWNSQUARE MEDIA LUBBOCK LICENSE, LLC								

NOTE: A SHOWING BASED ON THE LIVING WAY MINISTRIES METHODOLOGY TO THIS STATION IS INCLUDED WITH THIS APPLICATION THAT DEMONSTRATES PROTECTION TO THIS FACILITY.

K235CC	235	D FX	94.9 MHz	CP	PLAINVIEW	TX	US	BNPFT-20130821AAT
-	149270		0.099 kW		46.3 m	1079. m	50. m	
N 34 11	13.00	W 101 45	8.00	1200135	13.65 km	8.48 mi	9.46°	
CHRISTINA G. BENAVIDES								

NOTE: THIS IS THE FACILITY THAT IS MODIFIED BY THIS FILING.

KAIQ	238	C1 FM	95.5 MHz	LIC	WOLFFORTH	TX	US	BLH-20041012ABN
-	111		100. kW		206. m	1180. m	198. m	
N 33 31	3.00	W 101 51	24.00	1050308	61.24 km	38.05 mi	186.94°	
ENTRAVISION HOLDINGS, LLC								

NOTE: A SHOWING BASED ON THE LIVING WAY MINISTRIES METHODOLOGY TO THIS STATION IS INCLUDED WITH THIS APPLICATION THAT DEMONSTRATES PROTECTION TO THIS FACILITY.

Study Complete

FIGURE EE2: AERIAL PHOTO OF PROPOSED SITE
PLAINVIEW, TX, 235D



Google earth

