

Comprehensive Technical Exhibit “CTE”

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Long Form 349 Application (Expanding on BNPFT-20180125AAR)
Facility ID # 202619 Channel 235 94.9 MHz 0.25kw Horizontal & Vertical Lamesa, Texas

This long form 349 filing was requested by the FCC after determining that the January filing was a “singleton”. It is being filed in the April 18-May 9th, 2018 window.

KPET is currently heard over K286AO Lamesa, which has ownership overlap with KPET(AM) and the proposed translator. It's coverage overlaps this proposal, so K286AO will be modified to rebroadcast a different station; changes will be made before the new translator is operating.

DCB asks 250 watts H & V on channel 235 (94.9 MHz) using a 2 element Nicom model BKG-77 circularly polarized antenna located 964 meters above mean sea level. The proposed site (NAD 27 coordinates 32-42-26.6 N 101-56-09.4 W) is an existing structure, ASR # 1039816 owned by applicant and used by it's KPET (AM) and K286AO. The antenna will be mounted with it's center of radiation 76 meters above ground.

IF ACTUAL REAL WORLD INTERFERENCE OCCURS, APPLICANT WILL PROMPTLY SUSPEND OPERATION IN ACCORDANCE WITH 47 CFR § 74.1203.

Eligibility: DCB is the licensee of KPET (AM), the station seeking this translator. The proposed 1mv = 60dbu contour of the translator is properly situated within the 25 mile and 2mv Day contour of KPET. See Exhibit 1 below.

Interference and Allocation Concerns: A channel study was run using ComStudy v2.2 from Radiosoft, Ltd. It was determined that the proposed facility complies with 47 CFR § 74.1204 of the Commission's rules for interference to other facilities. No stations showed as short spaced or overlapping. The study is reproduced as Exhibit 2 below.

Mexican Border Issues: The proposed translator is within more than 320 km of the Mexican border. The 60dbu contour of the proposal is more than 300 kilometers from any point on the US/Mexico border, well outside the 116.3 km distance specified in the rules. This application is therefore in full compliance with 47 CFR § 74.1235(d)(2). This is shown as Exhibit 3 below.

RFR Environmental Concerns: The proposed facilities have been analyzed using the FCC Online Calculator <https://www.fcc.gov/general/fm-model>. Consideration was given the existing 250 watt KPET (AM) signal which has been fenced to keep people more than 2 meters away. The 250 watt (H&V) signal of K286AO and the proposed Translator signal do not approach the public/uncontrolled exposure threshold at any place on the ground. Results appear as Exhibit 4 below. Exhibit 5 below shows the rural nature of the site.

Exhibit 1

Eligibility of KPET (AM) for New Fill-In Translator: The proposed translator 1mv or 60dbμ contour will be entirely contained inside the KPET (AM) 25 mile radius zone.

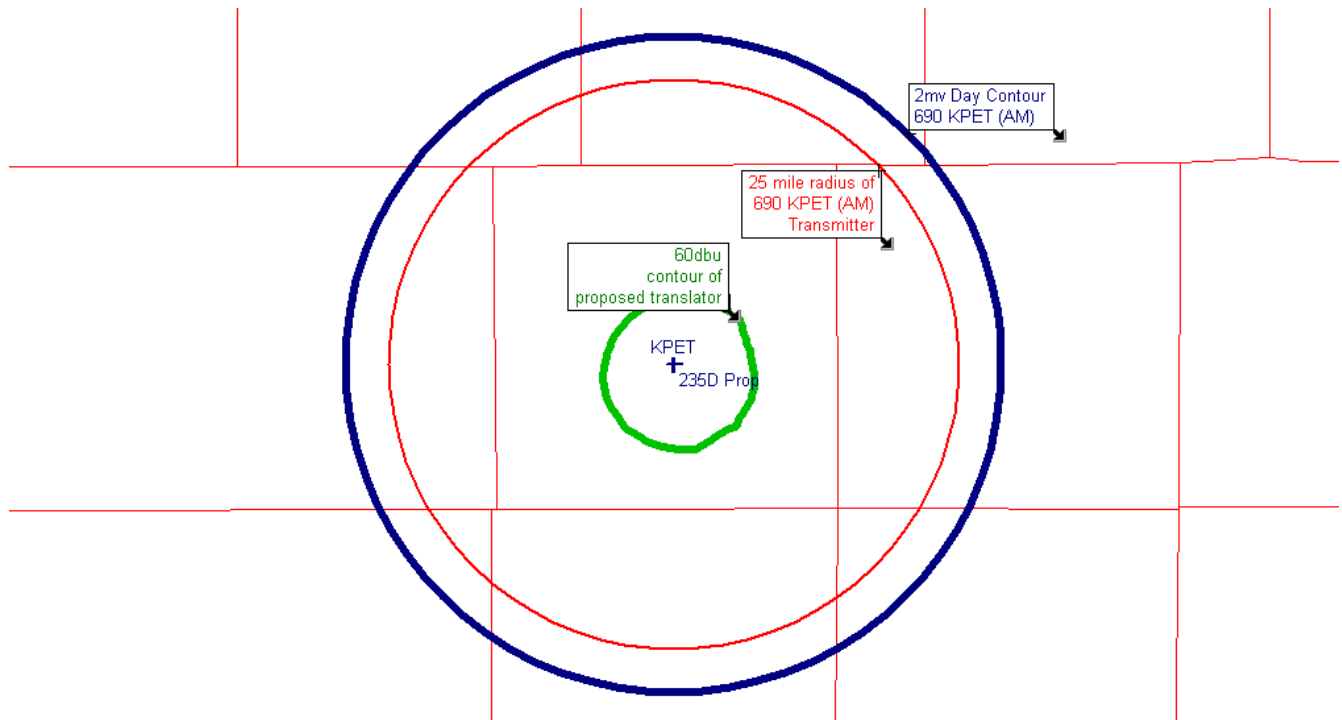


Exhibit 2

ComStudy 2.2 search of channel 235 (94.9 MHz Class D) at 32-42-27.0 N, 101-56-09.4 W.

CALL	CITY	ST	CHN	CL	DIST	SEP	BRNG	CLEARANCE
KHMZ	SNYDER	TX	235	C3	87.17	0	78.7	8.00 dB
KFMX-FM	LUBBOCK	TX	233	C1	90.17	0	4.7	9.21 dB
KAIQ	WOLFFORTH	TX	238	C1	90.14	0	4.7	10.88 dB
KQRX	MIDLAND	TX	236	C3	80.07	0	204.9	11.80 dB
KHMZ*	SNYDER	TX	235	C3	79.01	0	89.8	13.31 dB
KBTS	BIG SPRING	TX	232	C3	71.35	0	139.2	14.78 dB
KBIM-FM	ROSWELL	NM	235	C	180.49	0	282.9	17.34 dB
880421NM	MIDLAND	TX	236	C3	81.40	0	195.5	27.60 dB
K235CC	PLAINVIEW	TX	235	D	151.35	0	5.5	27.46 dB
KTXO	GOLDSMITH	TX	234	A	115.2	0	216.1	29.13 dB
KBIM-FM	ROSWELL	NM	235	C	180.49	0	282.9	34.16 dB
KTXO	GOLDSMITH	TX	234	A	114.48	0	219.2	35.18 dB
KIXY-FM	SAN ANGELO	TX	234	C1	194.95	0	133.7	35.76 dB
NEW	PECOS	TX	235	LP100	203.25	24	226.1	36.34 dB
KABW	BAIRD	TX	236	C1	220.42	0	101.7	36.96 dB

Exhibit 3

U.S. Mexico Border Consideration

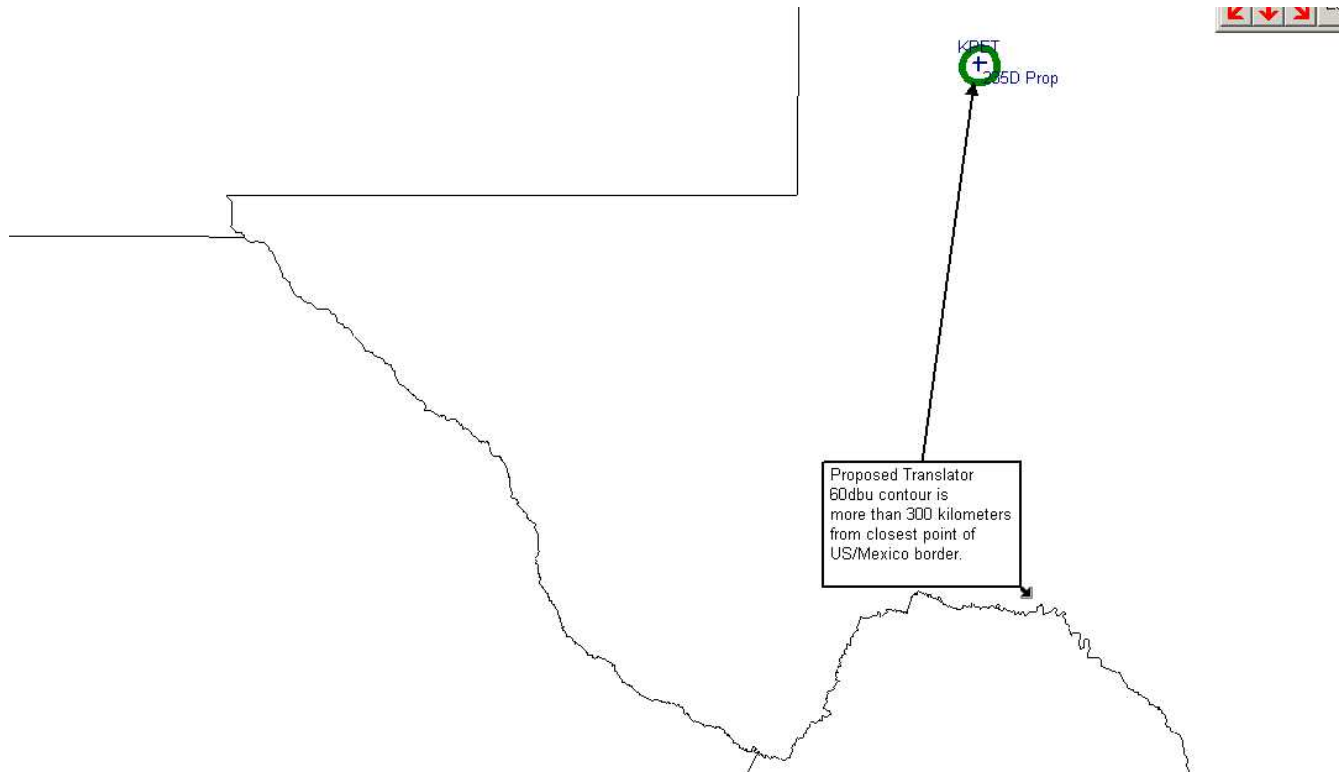
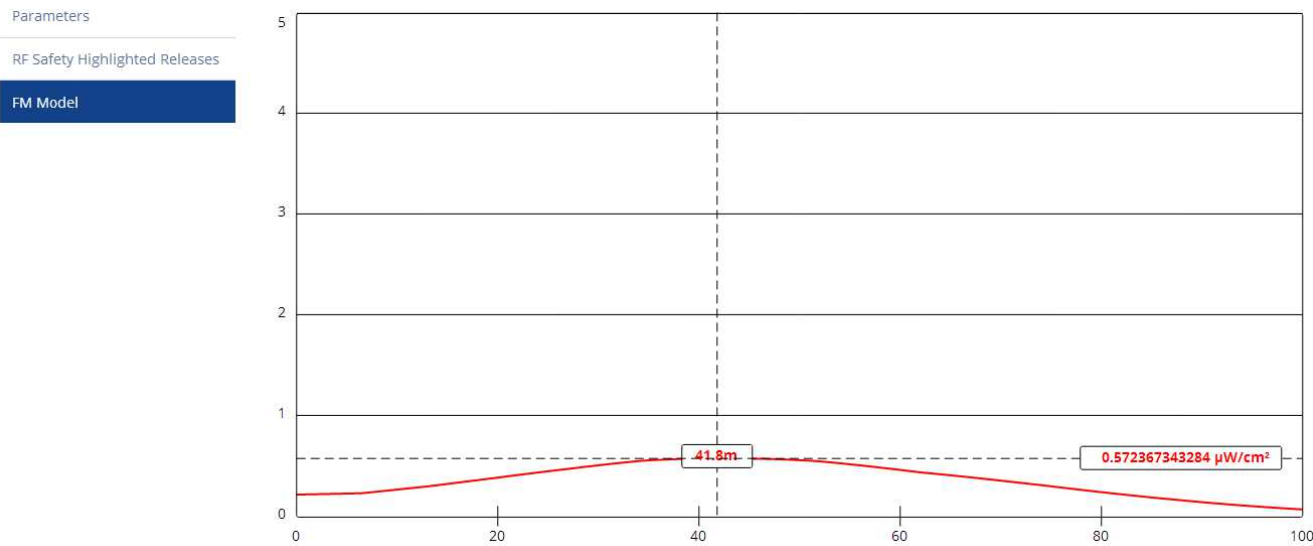


Exhibit 4

RFR

KPET(AM), K286AO and the proposed translator share a tower. KPET's 250 watt signal is fenced and signs are posted. Both K286AO and the proposed new translator are below the five percent threshold exempting from further study.



Channel Selection	Channel 235 (94.9 MHz)		
Antenna Type +	EPA Type 2: Opposed V Dipole		
Height (m)	76	Distance (m)	100
ERP-H (W)	250	ERP-V (W)	250
Num of Elements	2	Element Spacing (λ)	1
Num of Points	500	Apply	

This amounts to 0.28% of the Public Exposure Limit. Existing K286AO contributes less and KPET (AM) is fenced to avoid exposure to excess fields.

Exhibit 5

Site Pictures

