

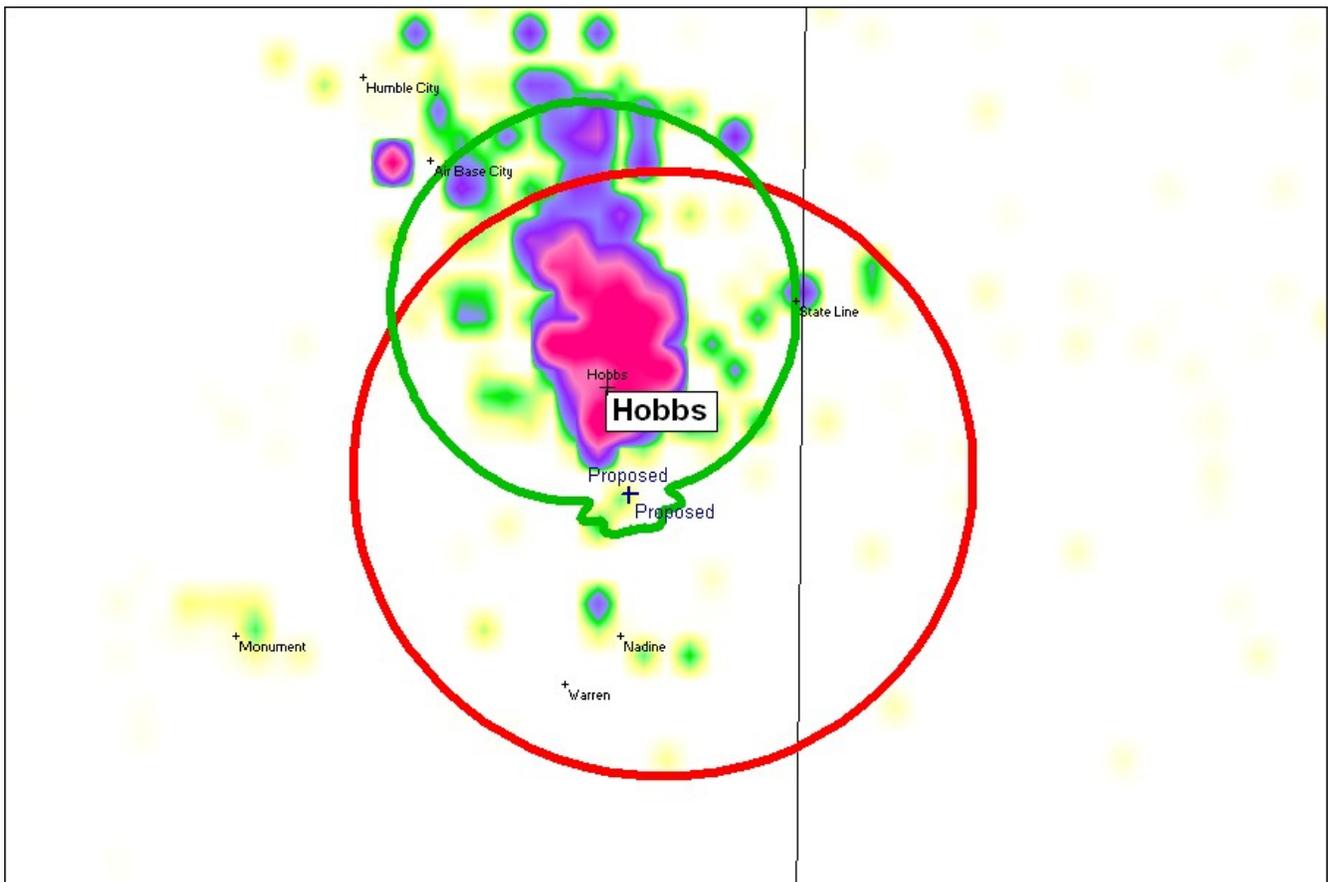
[Exhibit 13] "Technical Exhibit"

FCC Form 349 for Jimmy Michael Pickett

Minor Modification of K252CV Hobbs, New Mexico (Facility ID#16824)

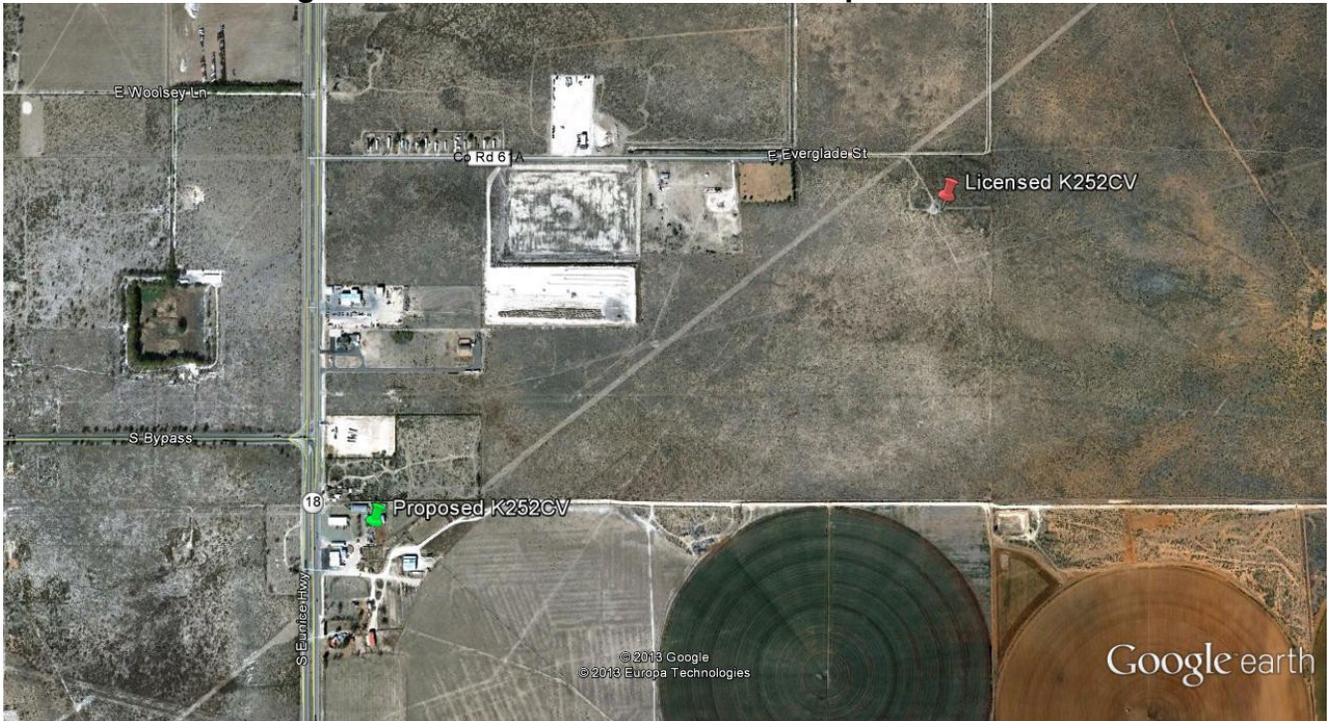
Jimmy Michael Pickett proposes to relocate K252CV Hobbs, New Mexico a short distance to an existing tower, changing height, power, and antenna. The present site was authorized as BLFT-20051024ABJ on November 22, 2005.

The proposed site is described by ASR 1002830. This application is a minor change as the existing contours (shown in red) overlap the proposed (shown in green).



Applicant seeks permission to relocate K252CV to an existing tower 1.35 kilometers southwest of the licensed site. Similar power and height are proposed. A directional antenna will be used at the new site. There are no AM, FM or TV facilities within 3 miles. As the move is small, and away from town, no adverse affects to other stations are expected. The licensed and proposed sites are shown as a Google Earth Map on page 2. The proposed site is located at 32-40-02.6 N 103-07-25.3 W (NAD27) 1.3 kilometers south west of the licensed site, with 0.25 kW horizontal at a height 100 meters above ground and 111.1 meters above average terrain. The HAAT was calculated using Comstudy 2.2.

## Google Earth Photo of Licensed and Proposed Locations



The licensed site is located near farm land, oil well sites, and a municipal sewer plant. The proposed site is south west of the licensed site, on the east side of New Mexico highway 18 in the area of more farms and oil fields.

A channel study was run using ComStudy available from Radiosoft, Ltd. It was determined that this proposed facility complies with 47CFR 74.1204 of the Commission’s rules for interference to other facilities.

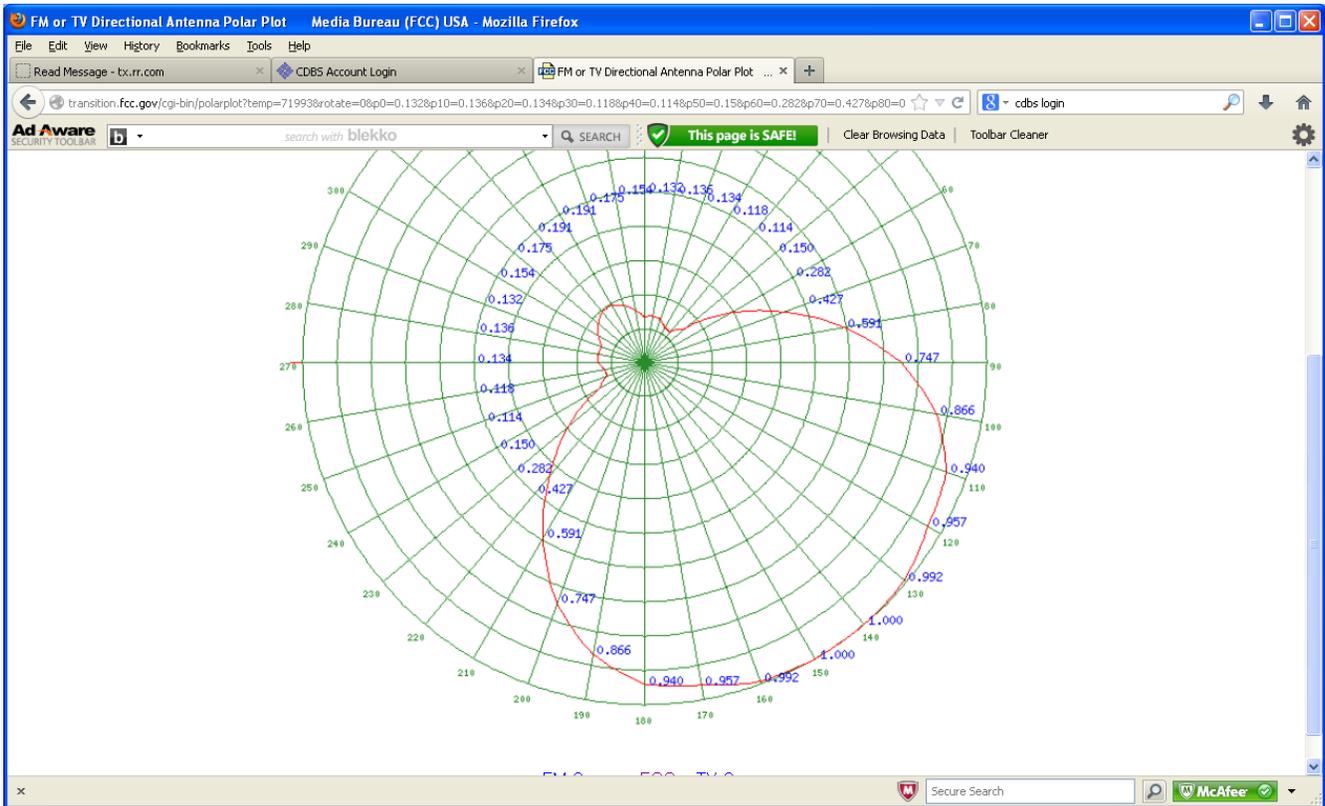
ComStudy 2.2 search of channel 252 (98.3 MHz Class D) at 32-40-02.0 N, 103-07-27.0 W.

CALL	CITY	ST	CHN	CL	DIST	SEP	BRNG	CLEARANCE	Notes
K252CV	HOBBS	NM	252	D	1.35	0.00	58.2	-71.81 dB	1
KMTH	MALJAMAR	NM	254	C1	66.91	0.00	294.6	0.72 dB	2
KBXJ	LOS YBANEZ	TX	253	C2	102.74	0.00	86.3	20.02 dB	
K250AM	SEAGRAVES	TX	250	D	44.49	0.00	40.9	23.84 dB	
KODM	ODESSA	TX	250	C1	131.61	0.00	137.2	27.52 dB	
KICA-FM	FARWELL	TX	252	C1	193.23	0.00	358.3	27.50 dB	
KKCL	LORENZO	TX	251	C2	151.31	0.00	51.0	32.02 dB	
KICA-FM	FARWELL	TX	252	C1	203.75	0.00	354.4	36.37 dB	
KPTX	PECOS	TX	252	C3	131.01	0.00	188.6	36.57 dB	

1 Applicant station

2 K252CV was authorized at the licensed site (green push pin on Google Earth map marked “licensed K252CV”. In eight years regular operation no problems have been observed or reported.

# Directional Antenna Information (Scala HDCA-5)



Relative Field Values - Mozilla Firefox

licensing.fcc.gov/cgi-bin/ws.exe/prod/cdbs/pubacc/prod/ant\_detail.pl?Antenna\_Id=71993

FCC Home | MB

### Relative Field Values

FCC > Media Bureau > MB-CDBS > CDBS Public Access > Antenna Search

Antenna Make	Model	Service	Antenna Id
SCA	HDCA5	FM	71993

Antenna relative field values:

0° 0.132	10° 0.136	20° 0.134	30° 0.118	40° 0.114	50° 0.15
60° 0.282	70° 0.427	80° 0.591	90° 0.747	100° 0.866	110° 0.94
120° 0.957	130° 0.992	140° 1	150° 1	160° 0.992	170° 0.957
180° 0.94	190° 0.866	200° 0.747	210° 0.591	220° 0.427	230° 0.282
240° 0.15	250° 0.114	260° 0.118	270° 0.134	280° 0.136	290° 0.132
300° 0.154	310° 0.175	320° 0.191	330° 0.191	340° 0.175	350° 0.154

Additional Azimuths:

[Relative Field Polar Plot](#)

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Federal Communications Commission  
445 12th Street SW  
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### **Environmental/RFR Matters**

The proposed antenna/location is 100 meters up on an existing 134 m tower, located in a rural area. The proposed antenna is a one element Scala CL7-150 Yagi type antenna fed with 7/8 inch coax from a suitable FM exciter and Amplifier. The power input will permit an effective radiated power of 250 watts horizontal. The tower base is fenced. The proposed additional antenna was studied using the OET FM model program. Using this program, the worst case power density at 2 meters above ground level was found to be 0.313 microwatts/cm<sup>2</sup>, which occurs 116.8 meters from the base of the tower. This is 0.626% of the maximum level for the general population, uncontrolled exposure level, and exempts the facility from further study, as it is an insignificant contributor. No other alterations will be made to the site, other than the addition of this antenna to the existing support structure. See Page 5 for the plot from FM Model.

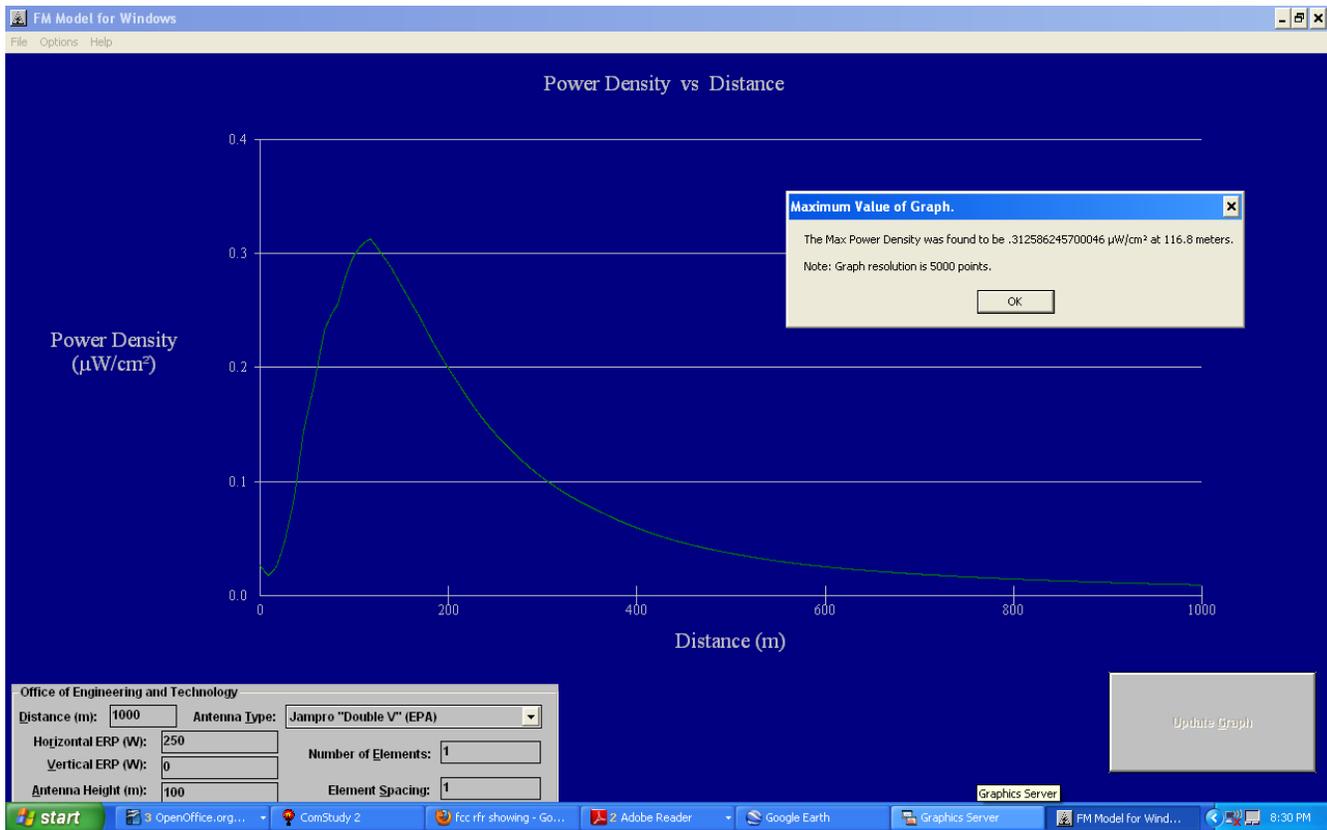
### **Border Area Compliance**

The proposed translator is within 320 km of the Mexican border, 47 C.F.R. §74.1235(d) has been taken into account and the applicant certifies that in the direction of the Mexican border, the proposed translator's 60 dB $\mu$  F(50,50) contour does not lie within 116.3 km of the Mexican border. This application is therefore in full compliance with 47 C.F.R. § 74.1235(d)(2), which states that for translators between 125 and 320 km from the border, "in no event shall the location of the 60 dB $\mu$  contour lie within 116.3 km of the Mexican border," and hence complies with 47 C.F.R. § 74.1204(h).

### **Station to Rebroadcast**

K252CV has permission to rebroadcast KMMZ (FM) Crane, Texas. K252CV is outside the protected contour of KMMZ. The owner of K252CV is a third party non employee/ manager/owner involved in KMMZ.

# RFR Evaluation of single element Scala HDCA-5 Yagi for K252CV Hobbs, NM



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