

[Exhibit 13] “Technical Exhibit”
FCC Form 349
Horizon Christian Fellowship
Minor Modification K286AO
Facility ID# 153725
.25 kw Horizontal & Vertical
Lamesa, Texas

Horizon Christian Fellowship (Horizon) proposes through this instant application to relocate K286AO a short distance to an existing tower, changing height, power, and antenna. The present site was authorized as BLFT-20070315ACP on April 16, 2007. This site was destroyed recently when the tower collapsed in a wind storm. Tower status is reported as “dismantled” in ASR 1240868.

[http://wireless2.fcc.gov/UIsApp/AsrSearch/asrRegistration.jsp?
regKey=2639654&printable](http://wireless2.fcc.gov/UIsApp/AsrSearch/asrRegistration.jsp?regKey=2639654&printable)

The applicant proposes to move to the nearby tower of KPET (AM). Applicant has permission from a managing member of the KPET owner to use the tower. The tower bears ASR 1039816. If granted the K286AO feed line(s) and antennas will be installed at the new site so that the equipment will be properly isolated and so that impedance of the antenna at the AM frequency will not be adversely affected. KPET is licensed with 250 watts using a non directional antenna for all hours. The licensed and proposed sites are shown as a Google Earth Map on page 3.

The proposed site will be located at N32°42'27" W101°56'11" (NAD27) 1.12 kilometers west of the licensed site, at .25 kW horizontal and vertical at a height 80 meters above ground and 75.1 meters above average terrain. The HAAT was calculated using the Computer program V-Soft Probe 3 using 12 radials in compliance with the methodology of 47CFR 73.313.

The proposed facility has 60 dBu overlap with the existing facility, and is on the same channel, which allows Horizon to file this as a minor change. See page 4 for a demonstration with the existing and proposed 60 dBu contours.

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. Except for KTXC (detailed next) there is no overlap of the proposed facility’s interfering contours with the protected contours of any other facility. The study is reproduced here on page 5.

One station required detailed study. KTXC (FM) ID # 71650. KTXC places a 76.34dbu contour to the proposed location. For K286AO to cause interference it would have to have a 116.34dbu (50,10) contour that reaches to listeners in permanent structures. Using 250 watts H & V and distance to contour tabulation in Commstudy this could reach 300 meters, without making allowance for the antenna height above ground, or antenna vertical pattern. The proposed antenna will be 80 meters above ground. This places the signal over a municipal landfill, municipal golf course, and a municipal sewer settling pond. This is shown on page 6 and Page 7.

Since 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 μ 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 μ contour lie within 116.3 km of the Mexican border," and hence complies with 47 C.F.R. § 74.1204(h).

The proposed location is 80 meters up on an existing 85.9 m tower, located in a rural area. The tower base is fenced for its use as the KPET (AM) radiator. 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 1.65 microwatts/cm², which occurs 21 meters from the base of the tower. This is 0.83% 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 8 for the plot from FM Model and pages 9 through 29 for tabulation of the output results.

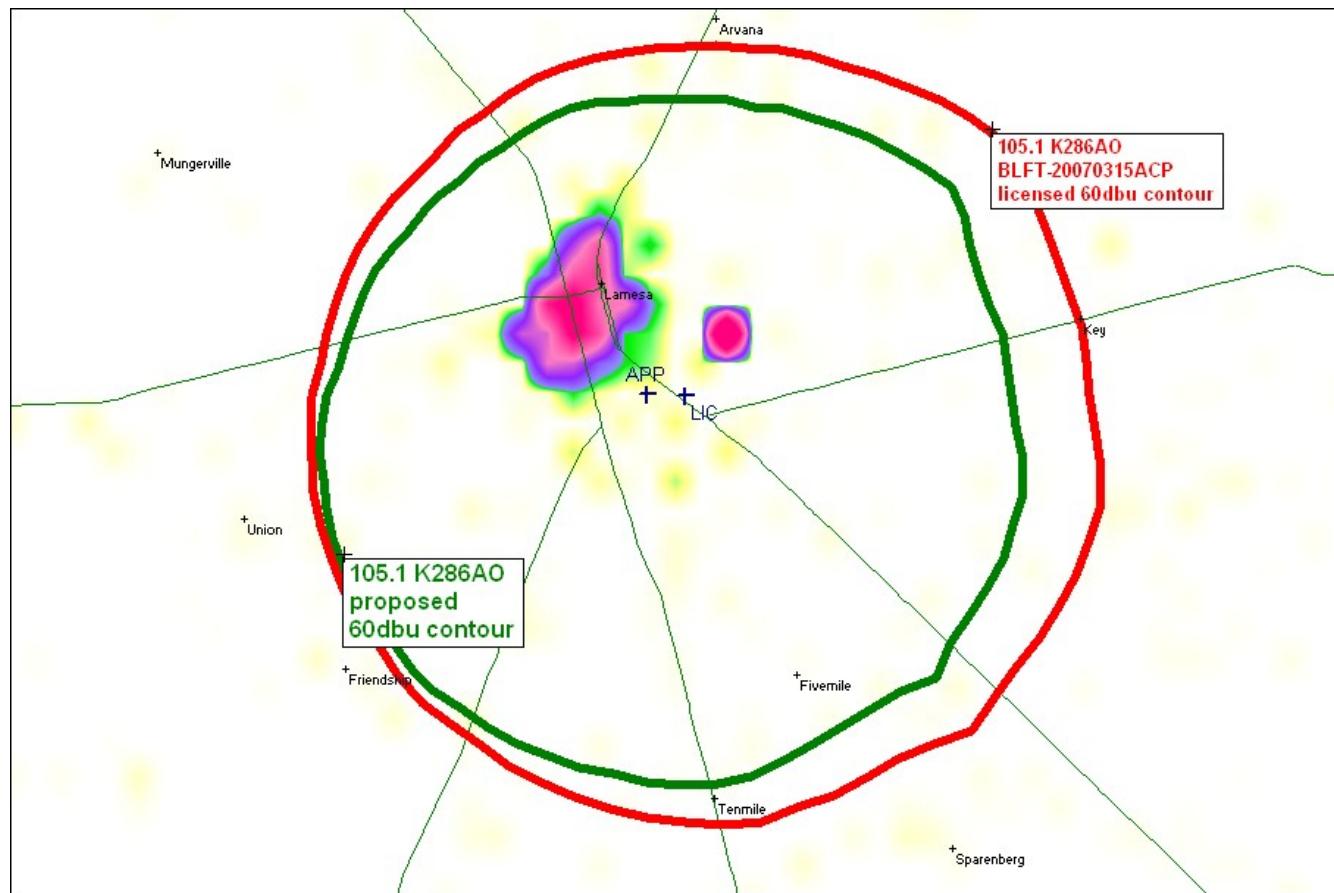
Lastly, the station to be rebroadcast will change to KPET (AM) . A map demonstrating that the proposed translator operation is within the 25 mile radius of the tower, and inside the 2 mv contour of KPET is shown as page 30.

**Google Earth Photo of Licensed and Proposed Locations
(Call Sign hash marks are from unrelated Cavell, Mertz & Associates website)**



The licensed site is located in and near farm land, oil well sites, and a golf course. The proposed site is west of the licensed site, on the west side of the golf course near municipal sewer ponds, more farms and a city land fill.

Licensed and Proposed 60dbu Contours showing that change is a minor one



Friday January 22, 2010

ComStudy 2.2 search of channel 286 (105.1 MHz Class D) at 32-42-27.0 N, 101-56-11.0 W.

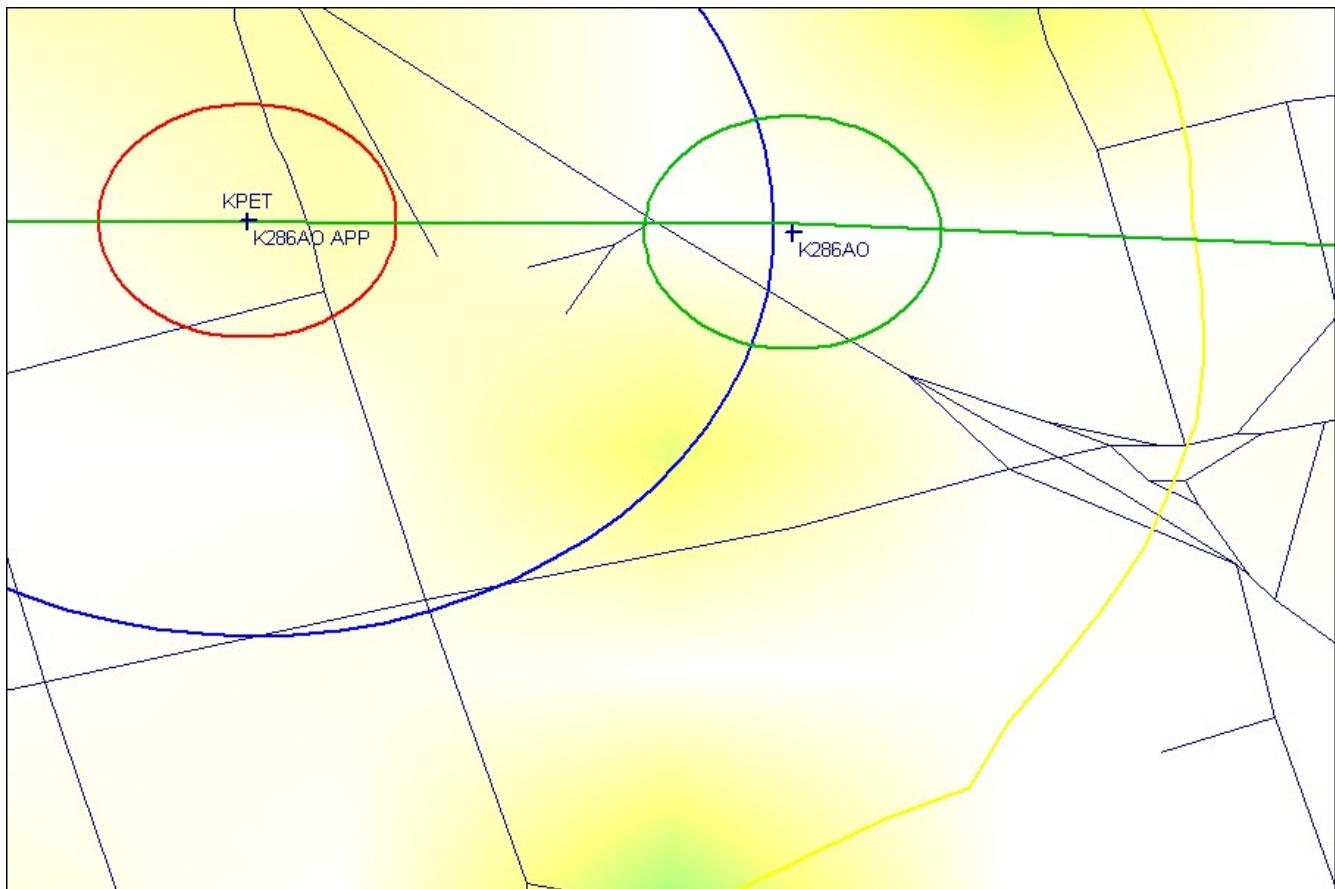
CALL	CITY	ST CHN CL	DIST	SEP	BRNG	CLEARANCE	Notes
K286AO	LAMESA	TX 286 D	1.12	0.00	91.6	-23.57 dB	1
KTXC	LAMESA	TX 284 C1	34.55	0.00	183.2	-17.00 dB	2
KJDL-FM	LEVELLAND	TX 287 C2	81.38	0.00	347.4	7.05 dB	
NEW	WARFIELD	TX 286 D	90.76	0.00	197.0	13.75 dB	
NEW	ODESSA	TX 286 D	94.23	0.00	198.9	13.69 dB	
KWMW	MALJAMAR	NM 286 C1	164.79	0.00	277.2	17.46 dB	
KBTE	TULIA	TX 285 C1	142.60	0.00	13.0	21.66 dB	
KWDC	COAHOMA	TX 288 A	68.78	0.00	123.5	23.46 dB	
KACT-FM	ANDREWS	TX 288 A	70.63	0.00	235.6	26.30 dB	
KEAN-FM	ABILENE	TX 286 C1	225.30	0.00	101.7	28.08 dB	
KTXC	LAMESA	TX 284 C1	34.55	0.00	183.2	29.40 dB	
KWMW	MALJAMAR	NM 286 C1	172.11	0.00	276.0	32.29 dB	
KEAN-FM	ABILENE	TX 286 C1	225.30	0.00	101.7	34.94 dB	
KRBL	IDALOU	TX 289 A	110.58	0.00	16.4	35.03 dB	
NEW	ANDREWS	TX 284 D	77.61	0.00	234.3	38.14 dB	
NEW	BIG SPRING	TX 284 D	77.16	0.00	141.4	38.67 dB	

1 Applicant station

2 KTXC non interference is explained on page 6 and page 7

K286AO was authorized at the licensed site (shown as “K286AO” and displaying a green circle), based on a showing of no interference to second adjacent KTXC (FM). In more than two years regular operation no problems have been observed or reported.

The proposed site (shown as “K286AO APP”) is slightly more remote from population than the authorized one.



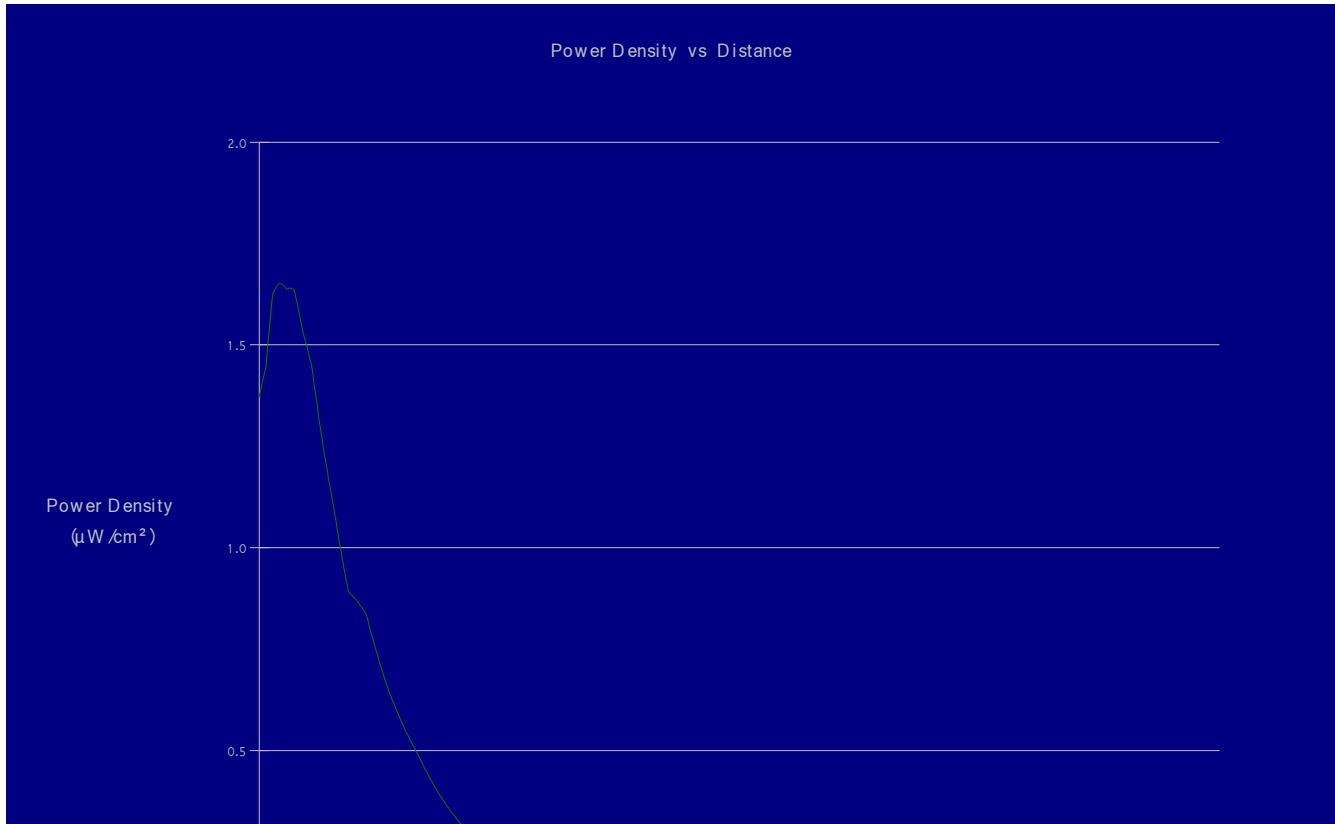
KTXC places a 76.34dbu FCC contour (50,50) to the proposed site. This value is shown as the east west line crossing the “K286AO” APP site. The Proposed translator would have to create a 116.34 dbu (50,10) contour shown in red to cause interference. This is not predicted to occur. The (on the ground, allowing for antenna pattern, height above ground, and distance)

Area around proposed site
Municipal Sewage plant ditches to north
Municipal landfill (white area to west of tower property)
Golf Course across street



The red circle shows a 300 meter radius (Free Space distance to contour predicted to cause interference to KXTC). Actual distance is less as this ignored antenna vertical pattern, and the fact that the antenna is elevated 80 meters above ground. This worst case falls short of the one house on this page (to south east).

FMModel Plot



The proposed antenna is a one element Ring Stub variety 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 and 250 watts vertical.

0	1.37286735676523
1	1.38459387665398
2	1.39591225029373
3	1.40680791523841
4	1.4172671181699
5	1.42727696490442
6	1.43682546605982
7	1.44915546113821
8	1.47632701212805
9	1.50311978836797
10	1.5294987487569
11	1.5554298473749
12	1.58088015575969
13	1.60581797776757
14	1.62570084039785
15	1.63123133500907
16	1.63620137623155
17	1.64061002025495
18	1.6444574404608
19	1.64774490602244
20	1.65047475575703
21	1.65242988625256 Highest Value Calculated
22	1.65186641665469
23	1.65078975394573
24	1.64920819895508
25	1.64713080297884
26	1.64456731856634
27	1.64152814894438
28	1.63802429645609
29	1.6376275477999
30	1.63897134092913
31	1.63976968222418
32	1.64003211303822
33	1.63976888182491
34	1.63899088694886
35	1.63770961935458
36	1.63593710544727
37	1.62834104011035
38	1.6173009656757
39	1.6060398891252
40	1.59457189983297
41	1.58291089291691
42	1.5710705437804
43	1.55906428487643
44	1.54690528466745
45	1.53460642874125
46	1.52626391419864
47	1.51780591591579
48	1.50910318602142

49	1.50016945504738
50	1.49101823441396
51	1.48166279527997
52	1.47211614958985
53	1.46239103324638
54	1.45249989133003
55	1.43962347006604
56	1.42223938807351
57	1.40498092975152
58	1.38785409461932
59	1.37086444031073
60	1.35401709748909
61	1.33731678497807
62	1.32076782502868
63	1.30437415864918
64	1.28813936093136
65	1.27206665631283
66	1.25682563754066
67	1.24226945859065
68	1.22784775820335
69	1.21356299312715
70	1.1994173686524
71	1.18541284969744
72	1.17155117170877
73	1.15783385135315
74	1.14426219698265
75	1.1308373188562
76	1.11756013910398
77	1.10443140142326
78	1.09145168049667
79	1.07630959787049
80	1.06143218780338
81	1.04681488966345
82	1.03245316998232
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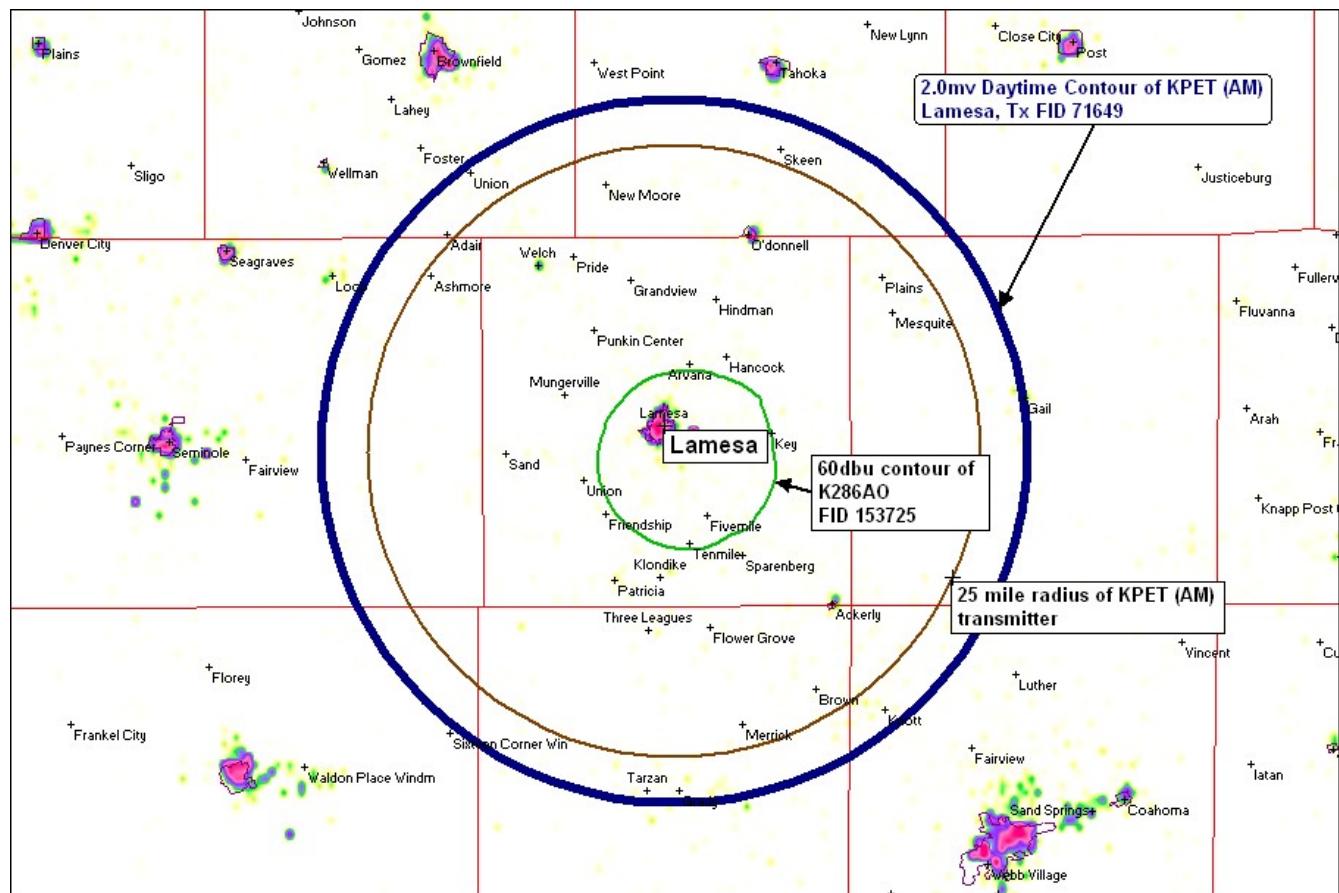
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Map showing KPET (AM) eligibility for rebroadcast on K286AO Lamesa, Texas



Changed facilities proposed in this application show that the new site is entirely inside the licensed contour.