

Technical Exhibit FCC Form 349
E RADIO NETWORK LLC
Minor Change Contingent Application K290AP Facility ID #14751
Commerce, TX
K299BZ Facility ID# 202950
.25 kW Vertical DA
Caddo Mills, TX

Purpose Of Application

E RADIO NETWORK LLC, ("E RADIO"), the licensee of KGVN (AM) FID# 21598 submits for filing this minor change to the licensed facility. This proposal is to modify the existing facility with a directional antenna at 90 meters AGL. The proposed 60 dBu contour of this proposal lies entirely within the 2 mV/m contour of the primary AM facility.

Interference To Other Facilities

The facility proposed by E RADIO complies with 47CFR 74.1204 of the Commission's rules for interference to other facilities. There is no overlap of the proposed facility's interfering contours with the protected contours of any other application or facility. E RADIO acknowledges that operation of this facility will cease if there are any complaints of interference. See the following pages for demonstration of no interference and compliance with 74.1204.

Multiple Translators

In addition to K299BZ, E RADIO has a license for K2290AP also used for KGVN. There is overlap between the K290AP facility and the 60 dBu coverage of the proposed K299BZ CP facility. E RADIO is filing a concurrent application to modify K290AP to reduce the overlap. With this modification this overlap becomes 32 percent of the area of the modified K290AP. See attached map and data depicting the overlap in coverage of the two translators and compliance with 74.1232(b).

Environmental

The proposed location is an existing 104.9 meter overall height guyed tower ASR 1051712. This is the same location where the presently licensed facility is located. The proposed antenna was studied using the OET FM model program. Using this program, with the EPA worst case Type 1 antenna mounted at 90 meters above ground level, the worst-case power density at 2 meters above ground level was found to be 1.028 microwatts/cm², which occurs 20.2 meters from the base of the support structure. This is .51 % of the maximum level for the general population, uncontrolled exposure level, and exempts the facility from further study, as it is an insignificant contributor.

KGVL
Latitude: 33-10-02 N
Longitude: 096-05-55 W
ERP: 1.0 kW
Frequency: 88.1 MHz
AMSL Height: 100.0 m
Elevation: 0.0 m
Horiz. Pattern: Omni

Proposed K299BZ
BNPFT20180130ACN
Latitude: 33-10-02 N
Longitude: 096-05-55 W
ERP: 0.25 kW
Channel: 299
Frequency: 107.7 MHz
AMSL Height: 220.0 m
Elevation: 166.0 m
Horiz. Pattern: Directional
HAAT:51.14 m

Proposed K290AP
BLFT20110407AAO
Latitude: 33-11-00 N
Longitude: 096-03-19 W
ERP: 0.25 kW
Channel: 290
Frequency: 105.9 MHz
AMSL Height: 262.0 m
Elevation: 172.0 m
Horiz. Pattern: Directional
HAAT:91.7 m

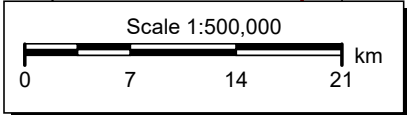
Proposed K290AP

Proposed K299BZ

Translator 60 dBu Overlap Area

KGVL 2 mV/m
Translator 60 dBu 50-50 service contours

AM 2 mV/m



Overlap Population Report
Proposed (299) / K290AP Mod (290)

Overlap Area Type: Intersection

Areas Included:

Proposed (299): FCC F(50-50) 60.00 dBu (FCC HAAT)
K290AP Mod (290): FCC F(50-50) 60.00 dBu (FCC HAAT)

Population Database: 2010 US Census (PL)

Total Population: 2,427

Housing Units: 1,038

Overlap Area: 50.65 sq. km (Area determined using 0.027 km cells)

```
-----
```

Area Description	Total Population	Total Area [sq. km]	Percent Population	Percent Area
Proposed (299): FCC F(50-50)	25,756	158.45	9.4 %	32.0 %
K290AP Mod (290): FCC F(50-50)	5,295	279.06	45.8 %	18.2 %

```
-----
```

Total Breakdown

White:	1,751	[72.1%]
Black:	181	[7.5%]
Hispanic:	446	[18.4%]
Native American:	10	[0.4%]
Asian:	15	[0.6%]
Pacific Islander:	0	[0.0%]
Mixed Race:	22	[0.9%]
Other:	2	[0.1%]

Total: 2,427

K290AP Mod DA
 E Radio Network LLC
 CH# 290D - 105.9 MHz, Pwr= 0.25 kW DA, HAAT= 91.7 M, COR= 262 M
 Average Protected F(50-50)= 12.34 km
 Standard Directional
 REFERENCE
 33 11 00.41 N.
 96 03 19.90 W.
 DISPLAY DATES
 DATA 05-20-21
 SEARCH 05-21-21

CH CITY	CALL	TYPE ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
290D Commerce	K290AP	LIC _CN TX	0.0 360.0	0.00 0000087274	33 11 00.40 96 03 19.90	0.250	44.1 275	12.8 E Radio Network, LLC	-55.5*	-51.8*
291C Denton	KHKS	LIC _CN TX	232.4 51.9	107.86 BLH20020320AAE	32 35 19.50 96 58 06.00	100.000 508	129.5 698	86.7 Ihm Licenses, LLC	-27.5*	12.9
289C Decatur	KRNB	LIC NCN TX	279.6 98.7	142.20 BMLH20031209AAL	33 23 12.40 97 33 58.10	94.000 576	134.7 858	90.5 Service Broadcasting Group	0.4	42.6
289C0 Longview	KYKX	LIC NCN TX	119.3 299.9	132.70 BLH19960408KB	32 35 37.50 94 49 10.80	100.000 352	108.2 457	74.2 Alpha Media Licensee LLC	14.7	44.8
287C Dallas	KRLD-FM	LIC _CN TX	232.1 51.6	107.84 BMLH20060323ABT	32 35 02.50 96 57 49.00	100.000 574	13.2 764	90.3 Entercom License, LLC	88.7	17.3
293D Royse City	K293CN	LIC _CN TX	228.3 48.1	35.80 0000120258	32 58 07.40 96 20 30.90	0.085	0.6 298	11.4 Iglesia Cristiana Ebenezer	29.3	24.2
237C2 Howe	KHYI-FM1	CP DCN TX	261.3 80.9	58.05 0000121065	33 06 09.78 96 40 13.13	0.800	17.9 227	5.5 Metro Broadcasters - Texas	14.5R	43.6M

Terrain database is NED 03 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
 In & Out distances between contours are shown at closest points. Reference zone= West Zone, Co to 3rd adjacent.
 All separation margins (if shown) include rounding.
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
 "*"affixed to 'IN' or 'OUT' values = site inside restricted contour.
 « = Station meets FCC minimum distance spacing for its class.

K290AP Mo

05-21-2021

RMS(V)= .631

Graph is Relative Field

Azi	Field	dBk	kw
000	0.900	-06.936	0.202
010	0.940	-06.558	0.221
020	0.980	-06.196	0.240
030	0.990	-06.108	0.245
040	1.000	-06.021	0.250
050	0.990	-06.108	0.245
060	0.980	-06.196	0.240
070	0.940	-06.558	0.221
080	0.900	-06.936	0.202
090	0.840	-07.535	0.176
100	0.770	-08.291	0.148
110	0.680	-09.370	0.116
120	0.600	-10.458	0.090
130	0.490	-12.217	0.060
140	0.410	-13.765	0.042
150	0.350	-15.139	0.031
160	0.300	-16.478	0.023
170	0.280	-17.077	0.020
180	0.250	-18.062	0.016
190	0.230	-18.786	0.013
200	0.210	-19.576	0.011
210	0.210	-19.576	0.011
220	0.205	-19.786	0.011
230	0.210	-19.576	0.011
240	0.210	-19.576	0.011
250	0.230	-18.786	0.013
260	0.250	-18.062	0.016
270	0.280	-17.077	0.020
280	0.300	-16.478	0.023
290	0.350	-15.139	0.031
300	0.410	-13.765	0.042
310	0.490	-12.217	0.060
320	0.600	-10.458	0.090
330	0.690	-09.244	0.119
340	0.770	-08.291	0.148
350	0.840	-07.535	0.176

