

**Phoenix, AZ - KFLR-FM (Auxiliary FM)  
Service Contour Study:  
Proposed Auxiliary vs Primary  
47 C.F.R. Section 73.1675(a)(1)(ii) Study**

**Primary 1.0 mV/m (60 dB $\mu$ ) Contour**

**Proposed Auxiliary 1.0 mV/m (60 dB $\mu$ ) Contour**

Phoenix

**KFLR-FM.L**  
**KFLR-FM.aux**

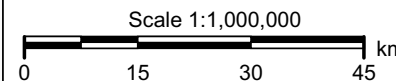
**KFLR-FM.L**  
Phoenix, AZ  
BLED20070912ABQ  
Facility ID: 20638  
Latitude: 33-20-02 N  
Longitude: 112-03-44 W  
ERP: 100.00 kW  
Channel: 212C (90.3 MHz)  
AMSL Height: 852.0 m  
Pattern: Directional

**60 dB $\mu$  F(50:50) Contour**  
Total Population: 4,009,655  
Total Area: 15,865.2 sq. km

**KFLR-FM.aux**  
Phoenix, AZ  
Proposed Aux Operation  
Facility ID: 20638  
Latitude: 33-20-05 N  
Longitude: 112-03-39 W  
ERP: 1.20 kW  
Channel: 212C (90.3 MHz)  
AMSL Height: 811.0 m  
Horiz. Pattern: Omni

**60 dB $\mu$  F(50:50) Contour**  
Total Population: 3,209,462  
Total Area: 4,933.0 sq. km

NED 03 SEC Terrain Database  
US Census 2010 PL Database



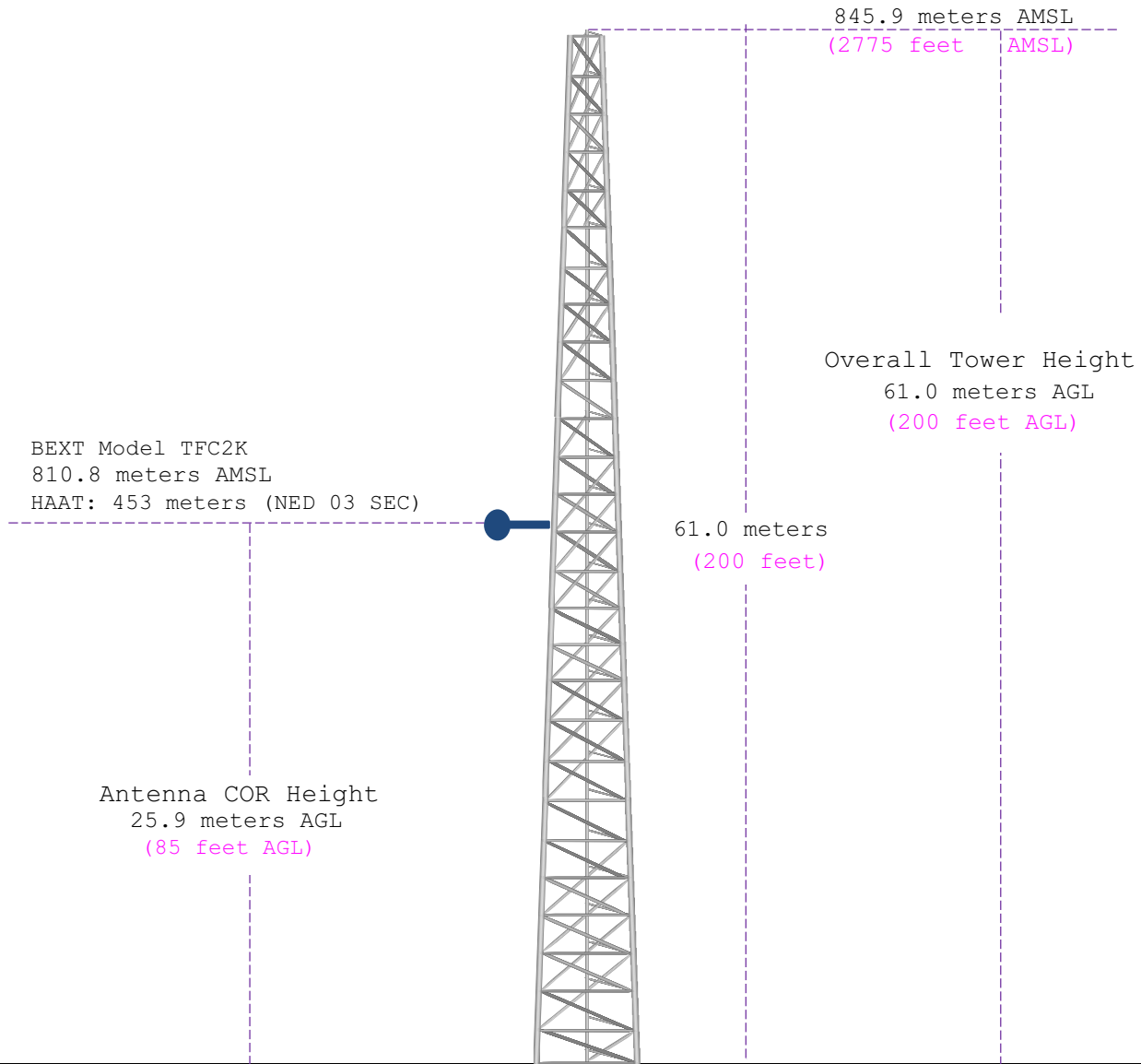
**Asher Broadcast Consulting LLC**  
justinasher@consultant.com  
1 (202) 875-2986

**§73.1675(a)(1)(ii) Auxiliary antennas.**

An auxiliary antenna is one that is permanently installed and available for use when the main antenna is out of service for repairs or replacement. An auxiliary antenna may be located at the same transmitter site as the station's main antenna or at a separate site. The service contour of the auxiliary antenna may not extend beyond the following corresponding contour for the main facility: (ii) FM stations: The 1.0 mV/m field strength contours.

# Phoenix, AZ - KFLR-FM (Auxiliary FM)

## Vertical Plan of Antenna System



Ground Elevation: 784.9 meters AMSL (2575 feet AMSL)		
Address: South Mountain Transmitter Site		
City: Phoenix	Latitude (D M S) Longitude (D M S)	
County: Maricopa	NAD 27 datum values: 33 20 4.83259 112 03 39.47253	
State: Arizona	NAD 83 datum values: 33 20 5.00000 112 03 42.00000	
Antenna Structure Registration 1019338	Drawing Is Not To Scale	Asher Broadcast Consulting, LLC justinasher@consultant.com 1(202)875-2986

# Phoenix, AZ - KFLR-FM (Auxiliary FM)

## Copy of Existing Antenna Structure Registration

### (Public Record Copy)

**Registration Detail**

Reg Number	1019338	Status	Constructed
File Number	A1072152	Constructed	01/01/1967
EMI	No	Dismantled	
NEPA	No		

**Antenna Structure**

Structure Type TOWER - Free standing or Guyed Structure used for Commu

**Location** (in NAD83 Coordinates)

Lat/Long	33-20-05.0 N 112-03-42.0 W	Address	SOUTH MOUNTAIN TRANSMITTER SITE
City, State	PHOENIX , AZ		
Zip	85048	County	MARICOPA
Center of AM Array		Position of Tower in Array	

**Heights (meters)**

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
784.9	61.0
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
845.9	61.0

**Painting and Lighting Specifications**

None

**FAA Notification**

FAA Study	96-AWP-3332-OE	FAA Issue Date	03/17/1997
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**Owner & Contact Information**

FRN	0023451453	Owner Entity Type	Limited Liability Company
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**Owner**

Vertical Bridge Towers, LLC  
 Attention To: FCC Contact  
 750 Park of Commerce Drive Ste. 200  
 Boca Raton , FL 33487

P: (561)406-4015  
 F:  
 E: fcc-faa@verticalbridge.com

**Contact**

Hickey , Richard  
 Attention To: FCC Contact  
 750 Park of Commerce Drive Ste. 200  
 Boca Raton , FL 33487

P: (561)406-4015  
 F:  
 E: fcc-faa@verticalbridge.com

**Last Action Status**

Status	Constructed	Received	05/02/2017
Purpose	Admin Update	Entered	05/02/2017
Mode	Interactive		

**Related Applications**

05/02/2017	A1072152 - Admin Update (AU)
04/21/2015	A0941586 - Admin Update (AU)
04/07/2015	A0940362 - Change Owner (OC)

Related applications (7)

**Comments****Comments**

05/22/1997	THE FAA/FCC EMI CONDITIONAL STATEMENT MUST BE PLACED ON THE CP/LICENSE.
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**History****Date****Event**

05/03/2017	Registration Printed
05/02/2017	Administrative Update Received
04/22/2015	Registration Printed
All History (15)	

**Automated Letters**

05/03/2017	Authorization, Reference
04/22/2015	Authorization, Reference
04/08/2015	Authorization, Reference

All letters (8)

# ***Phoenix, AZ - KFLR-FM (Auxiliary FM)***

## **HAAT and Miscellaneous Coordinate Information**

### **HAAT Calculation (1927):**

N. Lat. = 332005    W. Lng. = 1120339  
 HAAT and Distance to Contour,  
 FCC, FM 2-10 Mi, 51 pts Method - NED 03 SEC

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	339.2	471.8	1.2000	0.79	1.000	40.57
045	375.5	435.5	1.2000	0.79	1.000	38.97
090	382.6	428.4	1.2000	0.79	1.000	38.66
135	358.6	452.4	1.2000	0.79	1.000	39.71
180	344.0	467.0	1.2000	0.79	1.000	40.36
225	341.8	469.2	1.2000	0.79	1.000	40.46
270	394.7	416.3	1.2000	0.79	1.000	38.14
315	327.0	484.0	1.2000	0.79	1.000	41.13

Ave El= 357.92 M    HAAT= 453.08 M    AMSL= 811 M

### **NAD 1983 to NAD 1927 Conversion:**

	<u>Latitude</u>	<u>Longitude</u>
NAD 27 datum values:	33 20 4.83259	112 03 39.47253
NAD 83 datum values:	33 20 5.00000	112 03 42.00000

### **Various Coordinate Conversion Calculations (NAD 1983):**

Position Type	Lat Lon
<b>Degrees Lat Long</b>	33.3347222°, -112.0616667°
<b>Degrees Minutes</b>	33°20.08333', -112°03.70000'
<b>Degrees Minutes Seconds</b>	33°20'05.0000", -112°03'42.0000"
<b>UTM</b>	12S 401197mE 3688898mN
<b>UTM centimeter</b>	12S 401197.44mE 3688898.34mN
<b>MGRS</b>	12SVB0119788898
<b>Grid North</b>	-0.6°
<b>GARS</b>	136LG26
<b>Maidenhead</b>	DM33XI20OI40
<b>GEOREF</b>	EJHD56302008