

**EXHIBIT 12**

**AMENDED TECHNICAL STATEMENT**

**FM TRANSLATOR STATION  
ABILENE, TEXAS  
K290BV  
FACILITY ID - 155681  
BMPFT - 20151216AFO  
105.9 MHZ / 0.035 KW ERP**

**ARMIDA A. SAILLE**

**08 January 2016**

## **EXHIBIT 12**

### **AMENDMENT TO APPLICATION BMPFT-20151216AFO**

This technical statement and attached exhibits have been prepared for Armida A. Saille to support this application to modify the current CP of K290BV.

This application proposes antenna location on a pole mounted on a tall building with coordinates of (NAD27):

32 – 26 – 39 N

98 – 44 – 04 W.

The transmission parameters are:

Antenna overall height AGL is 93 meters

Antenna RCAGL – 93 meters

Support Structure height – 87 meters

ERP – 0.035 kW (H) and (V)

Antenna – non-directional

Primary Station to be rebroadcast – KGDL, Facility ID – 171016

Antenna will be mounted on a short pole of 6 meters in height, which is attached to the roof top of a tall building in Abilene, Texas at the coordinates provided in this application. This structure meets the 6.10 meter rule criteria and thus does not require FCC registration.

This station will rebroadcast KGDL ch 221 Facility ID 171016 Trent, Texas.

#### **Mexico:**

This site is 336 km from the US/Mexico border and is beyond the 320 km coordination zone with Mexico.

#### **Exhibits:**

Exhibit 12 – This narrative, channel study, 60 dbu contour overlap of licensed facility and proposed facility, RFE, and no interference showing. Aerial photo of site and photo of building included in this exhibit.

Exhibit 13 – Contour Protection

This exhibit demonstrates that this application to modify the existing construction permit does comply with 74.1204. Channel study indicates that this proposal clears KAYR by 0.53 db. Included contour map also shows that this proposal does clear KAYR.

**EXHIBIT 12  
CHANNEL STUDY**

Callsign	State	City	Freq	Channel	ERP_w	Class	Status	Distance_km	Sep	Clr
KKHR	TX	ABILENE	106.3	292	50000	C2	CP	2.63	0	-52.78 dB
KKHR	TX	ABILENE	106.3	292	50000	C2	LIC	4.43	0	-38.12 dB
KKHR	TX	ABILENE	106.3	292	0	C2	USE	4.43	0	-10.82 dB
KABW	TX	BAIRD	95.1	236	100000	C1	LIC	19.59	22	-2.4
KAYR	TX	ROBY	105.9	290	6000	A	CP	55.55	0	0.53 dB
KABW*	TX	BAIRD	95.1	236	0	C1	USE	26.4	22	4.4
KAYR	TX	ROBY	105.9	290	0	A	USE	69.08	0	17.73 dB
KCER-LP	TX	CISCO	105.9	290	93	LP100	LIC	71.68	24	18.20 dB
NEW	TX	ROBERT LEE	105.7	289	6000	A	APP	77.9	0	18.91 dB
NEW	TX	ROBERT LEE	105.7	289	6000	A	CP	83.4	0	24.40 dB
	TX	RISING STAR	105.9	290	0	C3	APP	99.15	0	26.79 dB
NEW	TX	SANTA ANNA	105.5	288	16500	C3	CP	101.73	0	28.64 dB
KMDX	TX	SAN ANGELO	106.1	291	50000	C2	LIC	136.87	0	28.25 dB
NEW	TX	KNOX CITY	106.5	293	25000	C3	APP	127.41	0	33.27 dB
KRNB	TX	DECATUR	105.7	289	93000	C	LIC	228.21	0	34.77 dB
K288GM	TX	SWEETWATER	105.5	288	140	D	CP	65.59	0	34.82 dB
KRNB	TX	DECATUR	105.7	289	98000	C	LIC	228.21	0	35.27 dB
	TX	ROBERT LEE	105.7	289	0	A	USE	81.66	0	36.46 dB
KRNB	TX	DECATUR	105.7	289	100000	C	LIC	228.21	0	36.67 dB
DKKJW	TX	STANTON	105.9	290	32000	C2	LIC	206.09	0	37.30 dB

In regards to KKHR, applicant is requesting a wavier for second adjacent channel as there is no population inside the translator's F(50,10) interfering 135 db contour.

KKHR ch 292, second adjacent contours at translator's antenna site:

FCC File number	Status	F(50,50) value	F(50,10) value
BLH – 20020819ABG –	LICENSED –	95.25 db –	Translator interfering contour – 135.25 db.
BPH – 20150708ABS –	Construction Permit –	108 db –	Translator interfering contour – 148 db.

**Screen 3 - Results**

**Results of Calculation**

**Distance to Contour = 0.007 kilometers**

**Input Data** from Screens 1 and 2

ERP = 0.035 kW  
 HAAT = 84.0 meters  
 Field Strength = 135.0 dBu

**Distances are in meters and kilometers**  
**Power is in kW (kilowatts)**  
**Field Strength is in dBu**  
**FM and NTSC TV Channels 2 through 6**  
**F(50,10) for interfering contours selected**  
**Find Distance, given a Field Strength**

This application is submitted using the smaller interfering contour value (135 db) to the licensed facility of KKHR. The F(50,10) contour distance is 7 meters and will perpetrate 1 meter into the roof of the building. No population inside this contour.

I.F. 53 and 54 channels.

Callsign	State	City	Freq	Channel	ERP_w	Class	Status	Distance_km	Sep	Clr
KABW	TX	BAIRD	95.1	236	100000	C1	LIC	19.59	22	-2.4

74.1204 (g) An application for an FM translator or an FM booster station that is 53 or 54 channels removed from an FM radio broadcast station will not be accepted for filing if it fails to meet the required separation distances set out in §73.207 of this chapter. For purposes of determining compliance with §73.207 of this chapter, translator stations will be treated as Class A stations and booster stations will be treated the same as their FM radio broadcast station equivalents. FM radio broadcast station equivalents will be determined in accordance with §§73.210 and 73.211 of this chapter, based on the booster station's ERP and HAAT. **Provided, however, that FM translator stations and booster stations operating with less than 100 watts ERP will be treated as class D stations and will not be subject to intermediate frequency separation requirements.**

This proposal's ERP is less than 100 watts and therefore not subject to the I.F protection requirement.

Exhibit 17 – Environmental Protection Act.

At the RCAGL of 6 meters, less 2 meters, specified in this application, the RFE is calculated using the formula

$$S = \frac{33.4 (F^2) ERP}{R^2}$$

R = 4 meters

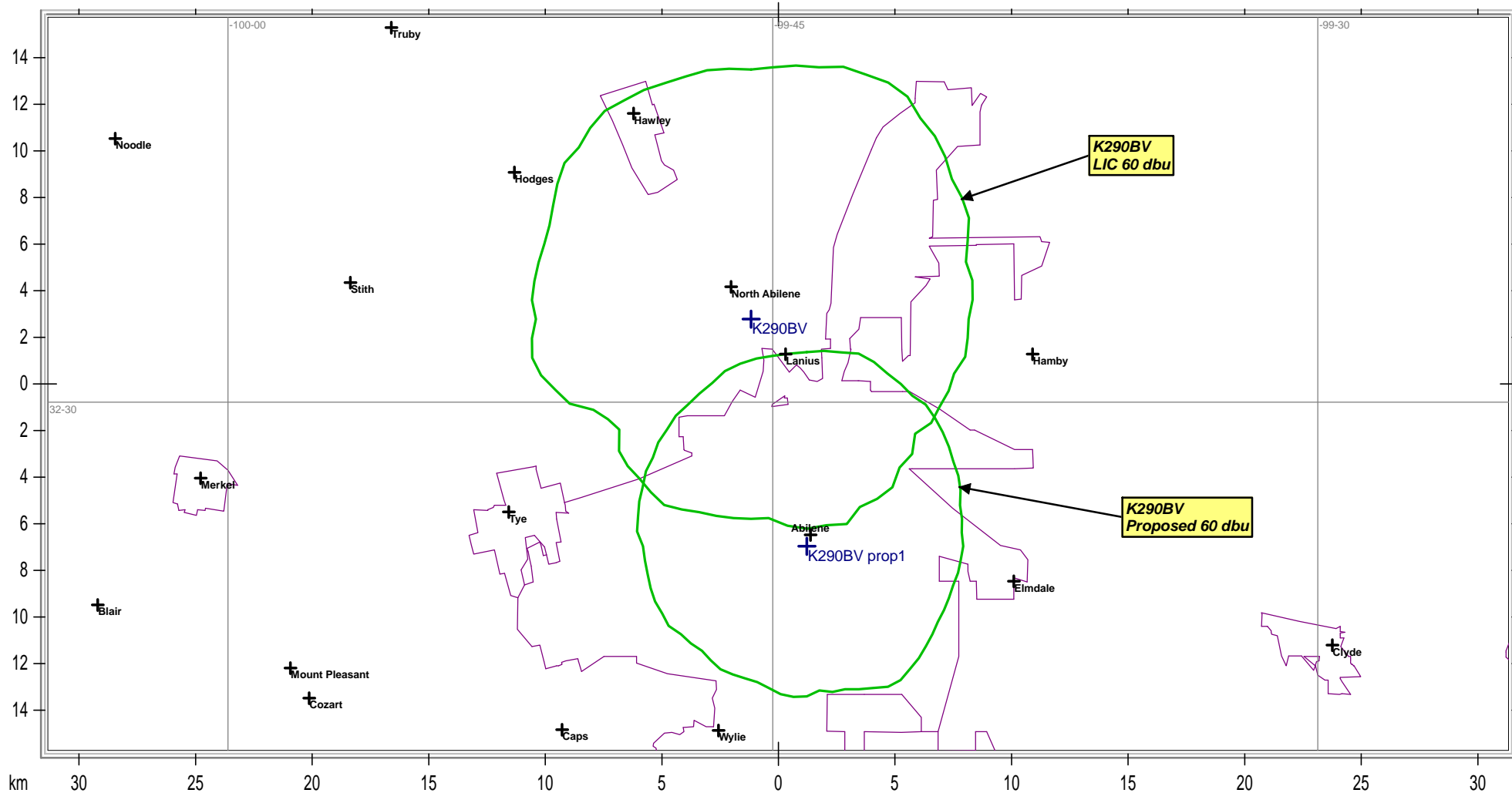
ERP (H & V) = 0.070 KW

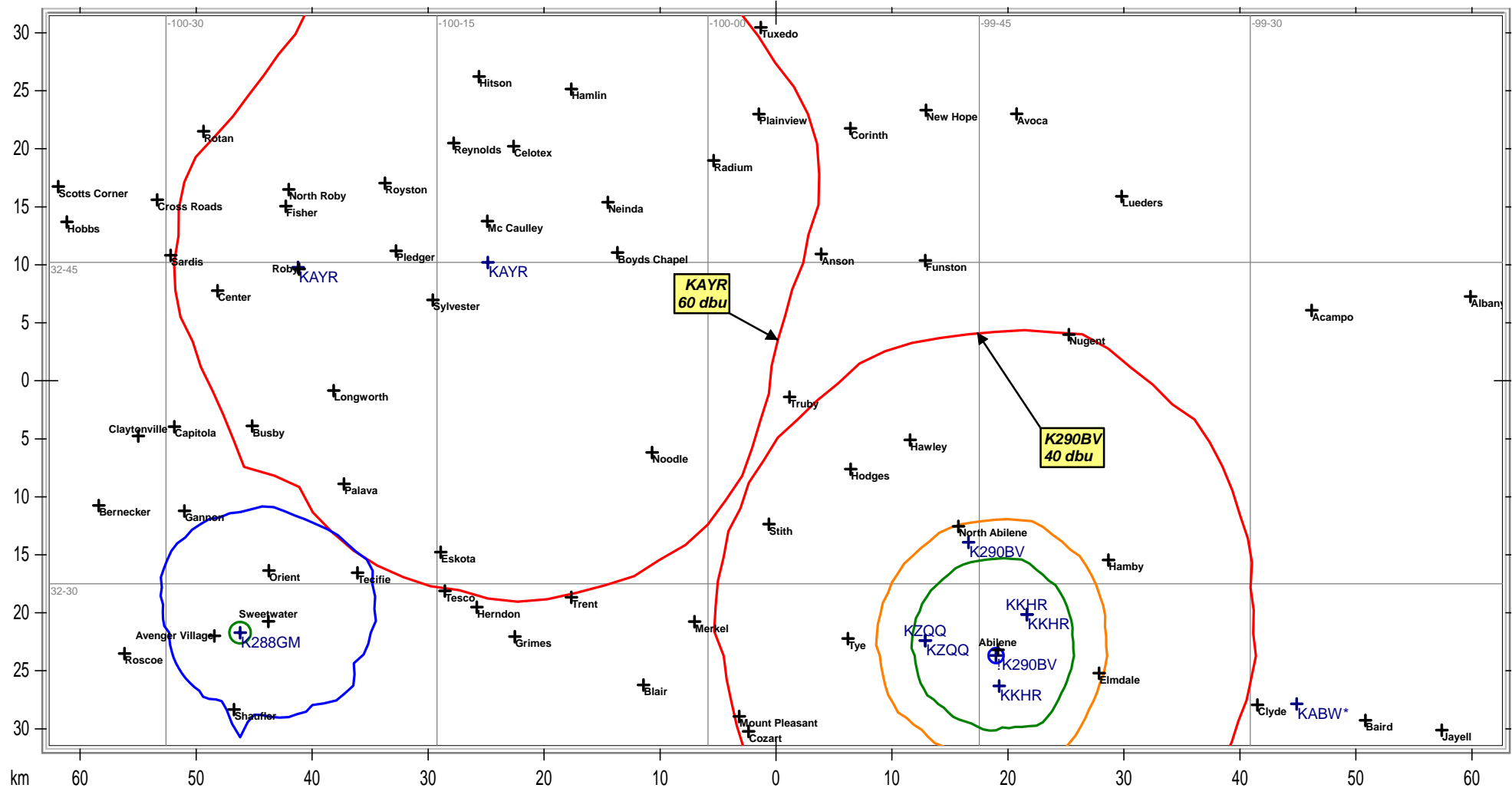
F = 0.35

S = 17.9 μW/cm<sup>2</sup> which is 8.95% of the 200 μW/cm<sup>2</sup> maximum allowable for uncontrolled public access.

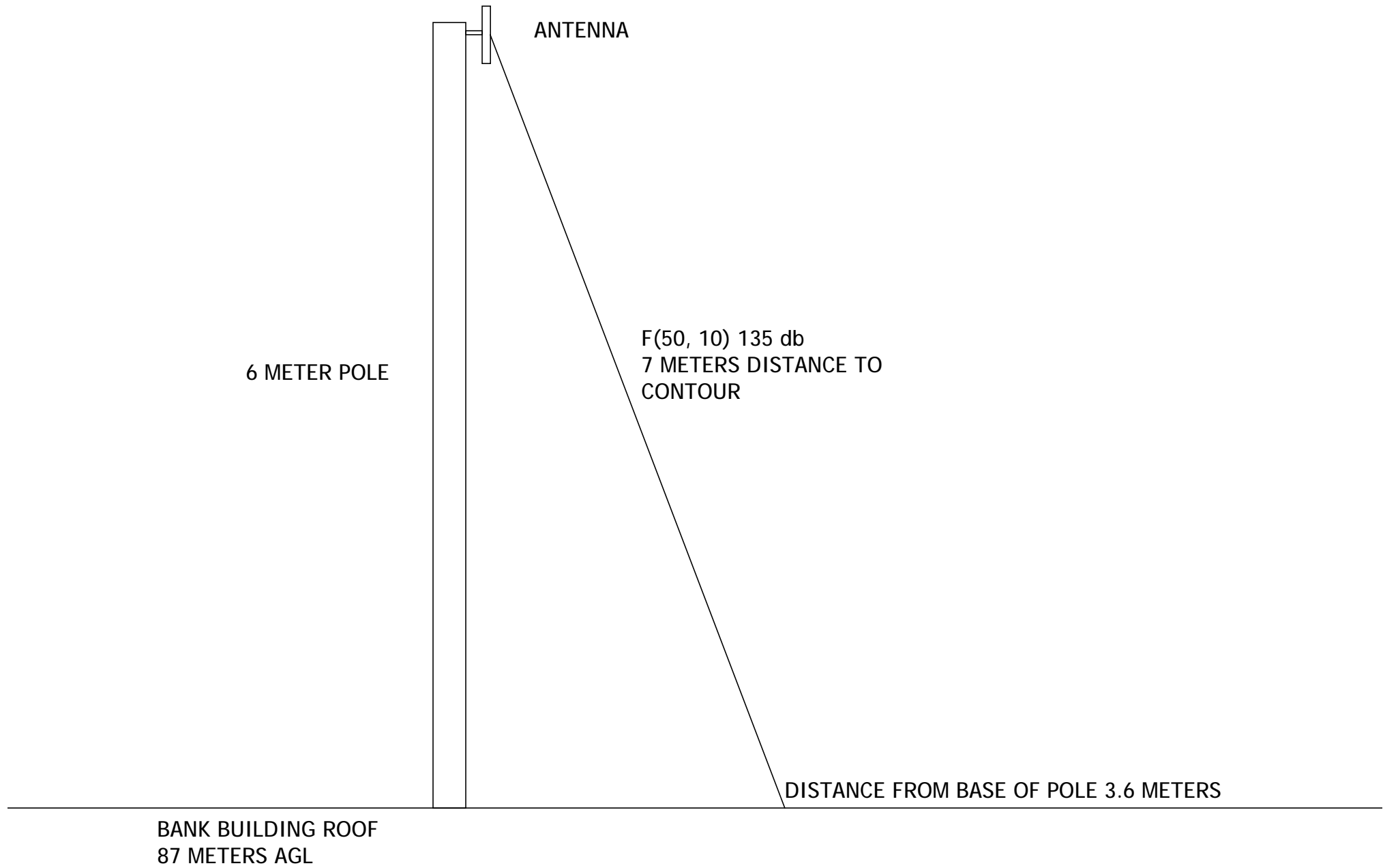
Antenna used will be a non-directional OMB MP-2 or similar. No other RF radiators will be on this pole.

Applicant will reduce power or cease operations whenever there are personnel near the antenna pole. Appropriate signage will be posted.







## EXHIBIT 12



# EXHIBIT 12 BANK BUILDING

## Legend

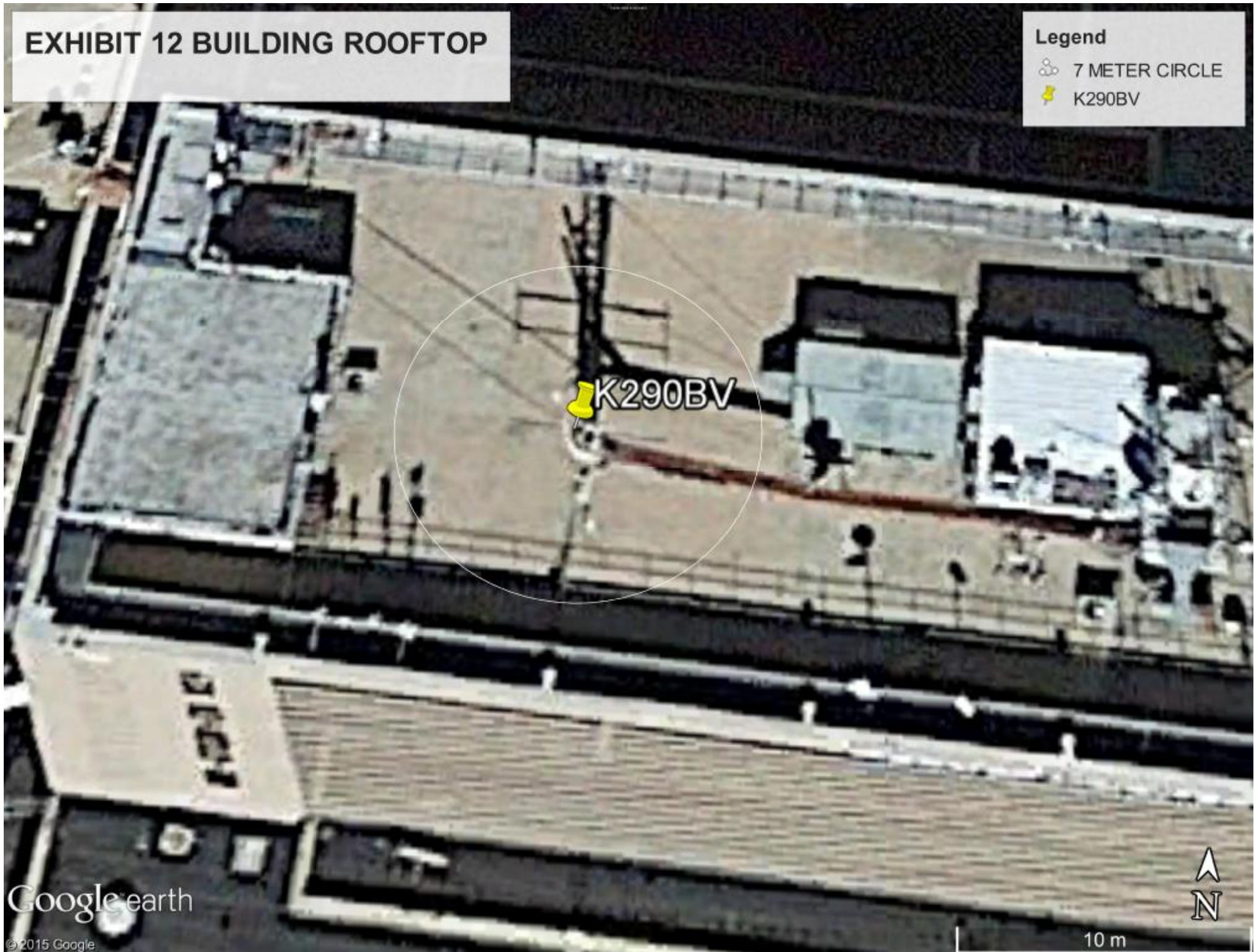
-  7 METER CIRCLE
-  Bank of America



## EXHIBIT 12 BUILDING ROOFTOP

### Legend

- 7 METER CIRCLE
- K290BV



Google earth

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10 m



## Antenna Structure Registration

[FCC](#) > [WTB](#) > [ASR](#) > [Online Systems](#) > TOWAIR[FCC Site Map](#)

### TOWAIR Determination Results

[? HELP](#)[New Search](#) [Printable Page](#)

#### \*\*\* NOTICE \*\*\*

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

#### DETERMINATION Results

**Structure does not require registration. The structure meets the 6.10-meter (20-foot) Rule criteria.**

#### Your Specifications

##### NAD83 Coordinates

Latitude	32-26-39.0 north
Longitude	099-44-05.0 west

##### Measurements (Meters)

Overall Structure Height (AGL)	93
Support Structure Height (AGL)	87
Site Elevation (AMSL)	526

##### Structure Type

BPOLE - Building with Pole

#### [Tower Construction Notifications](#)

Notify Tribes and Historic Preservation Officers of your plans to build a tower.

ASR Help	<a href="#">ASR License Glossary</a> - <a href="#">FAQ</a> - <a href="#">Online Help</a> - <a href="#">Documentation</a> - <a href="#">Technical Support</a>
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