

KXMG-FM
 Facility ID: 25520
 Channel: 298
 Application for STA
 Exhibits, Methods, and Pertinent Factors

Exhibit 1:

7.0 STA is Requested for use of:

Antenna System to provide Full Coverage to the citizens and community of Jean Lafitte, Louisiana.

The proposed STA is to be located on an existing TV Tower (ASRN: 1022410).

To avoid undue interference, and to comply with FCC spacing requirements, this STA submission utilizes the more restrictive C2 spacing protection for the purposes of the STA.

7.2 Antenna Location Coordinates: (NAD 27)

ASRN 1022410 provides coordinates in NAD 83 for the proposed tower. As required, this application is prepared with these coordinates converted to NAD 27. The result in fact yields the same coordinates as are on file with the Commission for tower host station WVUE-DT (Facility ID: 4149) co-located on the same tower.

7.4 - 7.7 Inclusive Height Calculations including Rounding

COR – AGL:	272.8 Meters
Ground Elevation	
<u>Base of Tower – AMSL</u>	<u>+ 0.9 Meters</u>
COR – AMSL:	273.7 Meters
COR – AMSL:	273.7 Meters
Subtract Height of Average Terrain	
<u>(from FCC 30 Second Data Calc)</u>	<u>- 0.2 Meters</u>
COR – HAAT:	273.5 Meters
Therefore:	
COR – HAAT Rounds to:	274.0 Meters

7.8 ERP

15.5kW

Calculation performed utilizing FCC "FMpower" tool,
- please see attached scan.

Exhibit 3:**7.11 Environmental Protection Act.**

Applicant intends to utilize a Dielectric DCR-H antenna in this circumstance.
The FCC's "FM Model for Windows" was run utilizing the following parameters:

Distance:	200 Meters (to capture the peak),
Antenna Type:	Dielectric DCRC (to most closely emulate the proposed Dielectric DCR-H, because both the "C" and the "H" versions utilize the same dipole)
Horizontal ERP:	15,500 Watts
Vertical ERP:	15,500 Watts
Antenna Height:	272.8 Meters (AGL)
Number of elements:	4
Spacing:	1 (full wave)
The "Update Graph" command calculates:	Approximately $1.3\mu\text{W}/\text{cm}^2$ peaking at approximately 125 Meters from the antenna.

- The calculated power density at peak, is well below the $200\mu\text{W}/\text{cm}^2$ limit for the general population in an uncontrolled exposure circumstance.
- The proposed FM antenna is on an existing structure with WVUE-DT (Facility ID: 4149) operating at 850kW.
- The proposed station KXMG-FM, is well below the five percent threshold.
- The applicant will use coordination and proper procedures with other users of the site, including the reduction of power or cessation of operation, to protect persons having access to the site, tower, or antenna, from radiofrequency electromagnetic exposure in excess of FCC guidelines.

Graphical Submissions Summary:

- KXMG-FM STA Map, showing full 70dBu coverage of Community of License (Jean Lafitte, Louisiana) from the proposed tower (ASRN: 1022410) at the proposed height (274m) with the proposed power (15.5kW),
- FMpower run, showing Equivalent ERP for KXMG-FM operating as a C2 for the purposes of the STA. 15.5kW at 274m HAAT.

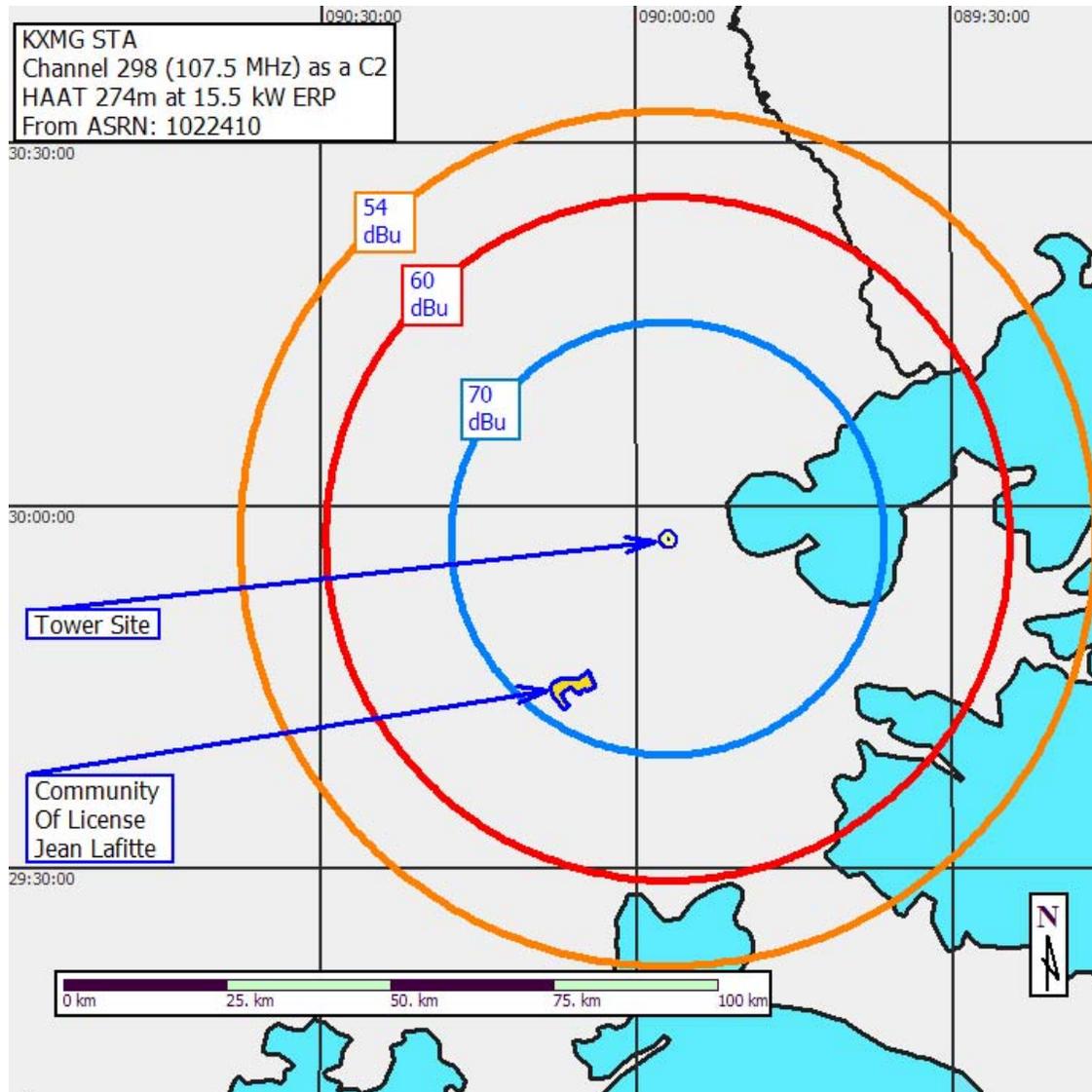
KXMG-FM STA Map:

Full 70dBu coverage of Community of License (Jean Lafitte, Louisiana)

Proposed tower – ASRN: 1022410

Proposed height – 274m

Proposed power – 15.5kW ERP



FMpower run - showing Equivalent ERP for KXMG-FM operating as a C2 for the purposes of the STA.

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FMpower Results

Class C2 facilities for Equivalency Determination:

Reference ERP = 50.000 kW
Reference HAAT = 150.0 meters
F(50,50) 60 dBu protected contour at 52.2 km distance

Equivalent ERP (rounded per 47 CFR 73.212) = **15.500 kW**

... at . **274.0 meters HAAT**

Unrounded ERP = 15.260 kW for 274.0 meters HAAT

Class C2 stations are authorized in LA.

[Enter New Data in FMpower?](#)

Related items: [FM and TV Propagation Curves](#).
This document may be accessed at <http://www.fcc.gov/mb/audio/bickel/fmpower.html>

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