

FCC FORM 302-FM  
APPLICATION FOR FM BROADCAST STATION LICENSE  
(To Cover Construction Permit BMPH-20111110AGU)  
KXMG, Facility ID: 25520

**Section III Engineering Data:**

Tech Box Data:

1. Channel **298**
  
2.
  - a.) ERP: **15.0kW (H)** **15.0kW (V)**
  - b.) Max ERP **Not applicable**
  
3. TPO: **10.5kW**
  
4. Antenna Data:

Manufacturer	Model	Sections	Spacing
<b>Dielectric</b>	<b>DCR-H</b>	<b>4</b>	<b>1</b>
  
5. Main Studio: **Yes, no exhibits are required.**
  
6. TPO: **Yes (see power budget exhibit).  
Note rounding 10,568 Watts in accordance with  
73.212 results in TPO of 10.5kW**
  
7. Constructed Facility: **Yes.**
  
8. Special Operating Conditions: **Yes. See Special Operating  
Conditions Exhibit.**

**Questions 9 through 17 are not applicable when filing to cover a CP and should be left blank.**

# KXMG RF Budget:

Cesium Communications  
RF Budget Planner

Confidential and Proprietary to Cesium Communications, LP

Description	Type (or) Calculations Performed	dB (subtract)	Power
<b>Station: KXMG-FM - 25520 - Sunburst Media - La. 302 - CP Build out @ STA Site - Fox 8 Tower</b>			
Desired ERP:			
Power Gain of Antenna:	Dielectric: DCR-H	Power Gain	15,000.0
Antenna Input Power Required:			2,100.0
			7,142.9
<b>Description</b>			
Initial Antenna Input Value Required:		dB (subtract)	7,142.857
Connector from xmission line to fine matcher (in dB)		0.0300	
Transmission line (loss in dB per 100 foot in MHz)		0.14	
Transmission line - Number of Feet:		1000.78	
(Takes 100' loss value and converts to actual run length)			
Total Transmission line loss (in dB):		1.4011	
connector from xmission line to filter (in dB):		0.0300	
filter loss (in dB):		0.1800	
connector from filter to internal line run in dB:		0.0300	
other losses (RF switches, etc.) in dB:		0.0000	
connector from internal line run to transmitter, in dB:		0.0300	
<b>Total dB Loss in System:</b>		<b>-1.7011</b>	
<b>Type of Calculation</b>			
For Input	Formula	Value	=E1
Solves for <b>Power In</b> when dB Gain/Loss and Power Output are known	dB = 10 Log Vout / Vin	dB	=
(#s entered & computed from calculations above)		↓	
		-1.7011	-0.1701
			0.6759
			7,142.8571
			10,567.7158
<b>Transmitter Output Power Required:</b>			
<b>Power lost in total xmission line run (in watts):</b>			10,567.717
			3,424.860

Cesium Communications:  
Dallas, Texas

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**This facility was constructed in compliance with all special operating conditions, terms, and obligations described in the construction permit and as outlined below:**

**Special operating conditions 1 stated:**

If the antenna is mounted on an existing tower that is NOT base-insulated or detuned at the AM frequency, the permittee must submit a certification to this effect. If the antenna is mounted on an existing tower that is base-insulated or detuned at the frequency of AM station WIST(AM), New Orleans, Louisiana (Facility ID No. 74090), the applicant must notify the AM station. If necessary, the AM station may determine operating power by a method described in Section 73.51(a)(1) or (d), and/or request temporary authority from the Commission in Washington, D.C. to operate with parameters at variance in order to maintain monitoring point field strengths within authorized limits. The permittee shall be responsible for readjustment and continued maintenance of any detuning apparatus necessary to prevent adverse effects upon the radiation pattern of the AM station. Both before and after the installation of the antenna and transmission line on the tower, a partial proof of performance, as defined by Section 73.154(a) of the Commission's Rules, must be conducted to establish that the AM array has not been adversely affected. The results of the partial proofs must be submitted to the Commission with the FCC Form 302-FM, application for license, to cover this permit.

### **Special Operating Condition 1:**

With regard to item one (1) under the Special operating conditions or restrictions Section of permit BMPH-20111110AGU regarding station WIST (AM) (Facility ID: 74090).

At the time of the issuance of the KXMG (FM) (Facility ID: 25520) Construction Permit (BMPH-20111110AGU) on December 2, 2011, Radio Station WIST (AM) was already operating under an Extension of an STA (BESTA-20111011AKO referencing STA continuances of the sequence of STA's BESTA-20110207ADH, BSTA-20050922AFY, et al.).

WIST's filings indicate that WIST was operating under a Non-D STA, and at significantly reduced power, during the time of the KXMG build-out. Therefore it was not possible for KXMG to conduct normal before and after readings of WIST's directional performance, and submit a partial proof, as WIST was operating under a Non-D STA during the entire KXMG build-out period.

The Commission would also want to know that additional care was exercised by KXMG in selecting a tower (ASRN: 1022410) that had an existing run of 3-inch transmission line already mounted on it, and KXMG's understanding that said 3-inch transmission line had been in place on the tower for several decades. As the number of transmission lines on the tower was not increased by the construction of KXMG it would be hard to imagine any practical effect to WIST even if WIST were operating according to its licensed parameters as a four (4) tower array, for both day and night patterns.

Because of these factors KXMG reasonably believes that condition one (1) of the KXMG Construction Permit would be fully satisfied even though it is impossible to submit meaningful partial proofs because of WIST's STA circumstance.

Finally, WIST has recently proposed on January 25, 2012, in BMP-20120125AEN, to go Non-D with both its Daytime and Nighttime patterns by withdrawing the Nighttime Directional application. This renders concerns for the operation of the legacy Directional array as specified in condition 1, moot.