



**United States of America**  
**FEDERAL COMMUNICATIONS COMMISSION**  
**AM BROADCAST STATION LICENSE**

Authorizing Official:

Official Mailing Address:

\_\_\_\_\_  
 CAPSTAR TX, LLC  
 2625 S. MEMORIAL DRIVE  
 SUITE A  
 TULSA OK 74129  
 \_\_\_\_\_

\_\_\_\_\_  
 Son Nguyen  
 Supervisory Engineer  
 Audio Division  
 Media Bureau  
 \_\_\_\_\_

Facility Id: 8589

Call Sign: WTKS

License File Number: BMML-20160509EIIY

Grant Date: August 26, 2016

This license expires 3:00 a.m.  
 local time, April 01, 2020.

This license covers permit no.: BP-20100831AAL

Subject to the provisions of the Communications Act of 1934, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus herein described.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.

Hours of Operation: Unlimited

Average hours of sunrise and sunset:  
 Local Standard Time (Non-Advanced)

|      |         |         |      |         |         |
|------|---------|---------|------|---------|---------|
| Jan. | 7:30 AM | 5:45 PM | Jul. | 5:30 AM | 7:30 PM |
| Feb. | 7:15 AM | 6:15 PM | Aug. | 5:45 AM | 7:15 PM |
| Mar. | 6:30 AM | 6:30 PM | Sep. | 6:15 AM | 6:30 PM |
| Apr. | 6:00 AM | 7:00 PM | Oct. | 6:30 AM | 6:00 PM |
| May  | 5:30 AM | 7:15 PM | Nov. | 7:00 AM | 5:30 PM |
| Jun. | 5:15 AM | 7:30 PM | Dec. | 7:15 AM | 5:15 PM |

Callsign: WTKS

License No.: BMML-20160509EIY

Name of Licensee: CAPSTAR TX, LLC

Station Location: SAVANNAH, GA

Frequency (kHz): 1290

Station Class: B

Antenna Coordinates:

Day

Latitude: N 32 Deg 05 Min 21 Sec

Longitude: W 81 Deg 08 Min 46 Sec

Night

Latitude: N 32 Deg 05 Min 21 Sec

Longitude: W 81 Deg 08 Min 46 Sec

Transmitter(s): Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Nominal Power (kW): Day: 5.3 Night: 5.0

Antenna Input Power (kW): Day: 5.3 Night: 5.4

Antenna Mode: Day: ND Night: DA

(DA=Directional Antenna, ND=Non-directional Antenna; CH=Critical Hours)

Current (amperes): Day: 10.29 Night: 10.39

Resistance (ohms): Day: 50 Night: 50

Non-Directional Antenna: Day

Radiator Height: 76.2 meters; 118 deg

Theoretical Efficiency: 323.8 mV/m/kw at 1km

Antenna Registration Number(s):

Day:

| Tower No. | ASRN    | Overall Height (m) |
|-----------|---------|--------------------|
| 4         | 1051909 |                    |

Night:

| Tower No. | ASRN    | Overall Height (m) |
|-----------|---------|--------------------|
| 1         | 1051910 |                    |
| 2         | 1051911 |                    |
| 3         | 1051908 |                    |
| 4         | 1051909 |                    |

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Night: 648.4  
 Standard RMS (mV/m/km): Night: 681.2  
 Augmented RMS (mV/m/km):  
 Q Factor: Night:

Theoretical Parameters:

Night Directional Antenna:

| Tower No. | Field Ratio | Phasing (Deg.) | Spacing (Deg.) | Orientation (Deg.) | Tower Ref Switch * | Height (Deg.) |
|-----------|-------------|----------------|----------------|--------------------|--------------------|---------------|
| 1         | 1.0000      | 0.000          | 0.0000         | 0.000              | 0                  | 97.3          |
| 2         | 0.8210      | 78.300         | 70.0000        | 245.000            | 0                  | 97.3          |
| 3         | 0.8840      | 63.900         | 219.0000       | 196.800            | 0                  | 97.3          |
| 4         | 0.7800      | -28.300        | 180.0000       | 180.000            | 0                  | 118.0         |

\* Tower Reference Switch

- 0 = Spacing and orientation from reference tower
- 1 = Spacing and orientation from previous tower

Night Directional Operation:

| Twr. No. | Phase (Deg.) | Antenna Monitor Sample Current Ratio |
|----------|--------------|--------------------------------------|
| 1        | 0            | 1                                    |
| 2        | 72.6         | 0.908                                |
| 3        | 58.7         | 0.984                                |
| 4        | 8.5          | 0.414                                |

Antenna Monitor: POTOMAC INSTRUMENTS AM-19D

Sampling System Approved Under Section 73.68 of the Rules.

Special operating conditions or restrictions:

- 1 The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.
- 2 Ground system consists of 120 equally spaced, buried, copper radials about the base of each tower, each 58.1 meters in length except where intersecting radials are shortened and bonded to a transverse copper strap midway between adjacent towers, plus a copper ground screen 7.3 meters square, about the base of each tower.

Special operating conditions or restrictions:

- 3 The licensee shall perform the measurements described in Section 73.155 at least once within every 24 month period.
  
- 4 Licensee shall be responsible for satisfying all reasonable complaints of blanketing interference within the 1 V/m contour as required by Section 73.88 of the Commission's rules.

\*\*\* END OF AUTHORIZATION \*\*\*