



United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

SOUTH TEXAS BROADCASTING, INC.
 4880 SANTA ROSA RD #300
 CAMARILLO CA 93012

Son Nguyen
 Supervisory Engineer
 Audio Division
 Media Bureau

Facility Id: 61174

Call Sign: KNTH

License File Number: BMML-20130205ACZ

Grant Date: January 15, 2014

This license expires 3:00 a.m.
 local time, August 01, 2021.

Relicensing pursuant to computer modeling and sample system verification techniques.

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

Name of Licensee: SOUTH TEXAS BROADCASTING, INC.

Station Location: HOUSTON, TX

Frequency (kHz): 1070

Station Class: B

Antenna Coordinates:

Day

Latitude: N 29 Deg 59 Min 33 Sec

Longitude: W 95 Deg 28 Min 23 Sec

Night

Latitude: N 29 Deg 59 Min 33 Sec

Longitude: W 95 Deg 28 Min 23 Sec

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

Nominal Power (kW): Day: 10.0 Night: 5.0

Antenna Input Power (kW): Day: 10.5 Night: 5.4

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 14.51 Night: 10.39

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1039497	
2	1039496	
3	1039493	
4	1039494	
5	1039495	
6	1039498	
7	1039501	
8	1039500	
9	1039499	
10	1039502	
11	1039503	

Night:

Tower No.	ASRN	Overall Height (m)
1	1039493	
2	1039494	
3	1039495	
4	1039496	
5	1039497	
6	1039498	
7	1039499	
8	1039500	
9	1039501	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 1225.97 Night: 909.3

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Day: 1309.67 Night: 958.21

Q Factor: Day: 49.95 Night: 26.48

Theoretical Parameters:

Day Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.9790	-12.600	0.0000	0.000	0	196.0
2	1.7090	158.400	90.0000	340.000	0	196.0
3	0.8720	148.000	210.0000	70.000	1	196.0
4	0.4840	0.800	210.0000	70.000	0	196.0
5	0.6000	-144.300	90.0000	160.000	1	196.0
6	0.7200	212.400	90.0000	160.000	0	196.0
7	0.6220	-158.400	210.0000	250.000	1	196.0
8	0.3020	-4.900	210.0000	250.000	0	196.0
9	0.7630	159.100	90.0000	340.000	1	196.0
10	0.1530	97.900	114.2000	273.200	0	90.0
11	0.3230	-36.900	114.8000	99.100	0	90.0

* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	37.0	34.2	852.95
2	103.0	56.0	563.27
3	132.0	56.0	1608.43
4	160.0	56.0	3459.88
5	190.0	56.8	1126.54
6	308.0	60.0	965.61
7	359.0	41.8	1174.82

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.2580	100.800	0.0000	0.000	0	196.0
2	0.5110	1.800	90.0000	160.000	0	196.0

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
3	0.2580	-97.200	180.0000	160.000	0	196.0
4	0.5050	99.000	210.0000	250.000	0	196.0
5	1.0000	0.000	90.0000	160.000	1	196.0
6	0.5050	-99.000	90.0000	160.000	1	196.0
7	0.2580	97.300	420.0000	250.000	0	196.0
8	0.5110	-1.700	90.0000	160.000	1	196.0
9	0.2580	-100.700	90.0000	160.000	1	196.0

* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	15.0	50.0	65.98
2	40.0	72.0	120.70
3	76.0	64.0	133.60
4	95.0	26.0	96.56
5	108.0	26.0	96.56
6	214.0	26.0	80.47
7	227.0	26.0	64.37
8	245.0	65.0	119.10
9	270.0	32.0	53.27
10	286.0	32.0	41.84
11	302.0	32.0	41.84
12	315.0	42.0	48.28
13	345.0	80.0	120.70

Day Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	-22.8	0.542
2	-149	0.39
3	54.5	0.668
4	0	1
5	-169.9	0.965
6	69.2	0.763
7	-7.2	0.271
8	-152.1	0.449

Day Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
9	50.8	0.445
10	156.9	0.18
11	8.1	0.338

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	121	0.202
2	-1.7	0.426
3	-123.2	0.413
4	110	0.403
5	0	1
6	-123.3	0.711
7	114.3	0.197
8	-4.2	0.438
9	-129.3	0.374

Antenna Monitor: POTOMAC INSTRUMENTS MODEL 1901-11

Sampling System Approved Under Section 73.68 of the Rules.

Special operating conditions or restrictions:

- 1 The permittee/licensee 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 The licensee shall perform the measurements described in Section 73.155 at least once within every 24 month period.

Special operating conditions or restrictions:

3 Ground System Description:

Ground System consists of 120 buried copper radials around towers No. 1 through No. 9 and extending 135° except where limited by property boundary. Radials are shortened and bonded to transverse copper straps along the intersections between towers No. 1 through No. 9. Non intersecting radials vary in length from 245' (74.69 meters) to 345' (105.18 meters). Also an elevated ground screen having an average radius of 25' (7.62 meters) is provided at the base of each tower. The screens are brought to ground potential by means of 4" (10.16 cm) copper strap running vertically down the supporting posts to ground level where another buried 4" (10.16 cm) strap running vertically down the supporting posts to ground level where another buried 4" (10.16 cm) strap parallels the extremities of the elevated screens. Towers No. 10 and No. 11 with identical elevated ground screens are securely bonded to intersecting straps and radials beneath.

4 Nighttime operating parameters for towers #1-#9 correspond to tower #1 to #9 as specified in the nighttime theoretical parameters section of this authorization.

5 Daytime theoretical parameter tower correlation to operating parameter tower of this authorization.
tower (theoretical) #1 is (operating) tower #5; tower #2 is tower #4, tower #3 is tower #1; tower #4 is tower #2; tower #5 is tower #3; tower #6 is tower #6; tower #7 is tower #9; tower #8 is tower #8; tower #9 is tower #7; tower #10 is tower #10 and tower #11 is tower #11..

*** END OF AUTHORIZATION ***