

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

File No.: BL-860430AG
FAC ID: 72061
Call Sign: WFLI

AM BROADCAST STATION LICENSE

Subject to the provisions of the Communications Act of 1934, as amended, subsequent Acts, Treaties, and Commission Rules made thereunder, and further subject to conditions set forth in this license, the LICENSEE

WFLI, INC.

is hereby authorized to use and operate the radio transmitting apparatus hereinafter described for the purpose of broadcasting for the term ending 3 a.m. Local Time AUGUST 1, 1989 in accordance with the following:

1. Station location: Lookout Mountain, TN

2. Main Studio location:
(Listed only if not at transmitter site or not within boundaries of principal community)

3. Remote control location:

4. Transmitter location: 621 O'Grady Drive
Chattanooga, TN

North latitude : 35 ° 02 ' 42 "
West longitude: 85 ° 21 ' 44 "

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

6. Antenna and ground system: Attached

7. Obstruction marking and lighting specifications — FCC Form 715, paragraphs: None required

8. Frequency (kHz.): 1070

9. Nominal power (kW): 50 Day
2.5 Night

Antenna input power (kW): 52.6 Day

Non-directional antenna: current _____ amperes; resistance _____ ohms.
 Directional antenna : current 32.45 amperes; resistance 50 ohms.

2.7 Night

Non-directional antenna: current _____ amperes; resistance _____ ohms.
 Directional antenna : current 6.21 amperes; resistance 70 ohms.

10. Hours of operation: Specified in construction permit (BP -19871 & BMP-840301AE & BMP-851205AG & BMP-860723AB
11. Conditions: - - -
NOT IN FILE

The Commission reserves the right during said license period of terminating this license or making effective any change or modification of this license which may be necessary to comply with any decision of the Commission rendered as a result of any hearing held under the rules of the Commission prior to the commencement of this license period or any decision rendered as a result of any such hearing which has been designated but not held, prior to the commencement of this license period.

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 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, as amended. 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, as amended.

¹ This license consists of this page and pages



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1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

No. and Type of Elements: Six guyed, series excited, steel radiators. of uniform cross section.

Theoretical RMS 2219.29 mV/m at 1 km day; 488 mV/m at 1 km night. Std RMS day 661.6 mV/m. STD RMS. night 513.20 mV/m at 1 km.

Height above Insulators: Towers 1, 2, 3, 5 & 6 180' (70.5°) tower #4 140' (54.8°)

Overall Height: 1,2,3, 5 & 6 183' #4, 143'

Spacing and Orientation: Tower #2 as reference. Tower #1 is spaced 90° at a bearing of 304°, Tower #3 is 90° away bearing 124° T. Tower #4 is spaced 170° apart on a line bearing 124° T. Tower #5 is spaced 89.7° on a line bearing 264.5° T. And the #6 tower is 73.0° apart at a bearing of 63.4° True.

Nondirectional Antenna: None used

Ground System 120 equally spaced radials of copper wire. Varying in length from 35'-229'. Radials will be bonded on 4" copper strap. Parallel 4" copper strap along O'Grady Drive will be connected at 30" intervals.

THEORETICAL SPECIFICATIONS

	Tower #1(NW)	#2(NC)	#3(SC)	#4(SE)	#5(SW)	#6(NE)
Phasing:						
Night	0.0°	-162°	47°	-108°	-	-
Day	-	0.0°	-	-	92°	-118°
Field Ratio*						
Night	0.39	0.97	1.00	0.41	-	-
Day	-	1.00	-	-	0.49	0.49

3. OPERATING SPECIFICATIONS

Phase Indication*

Night	8°	0°	-129°	116.5°	--	--
Day	-	0°	-	--	-37.2°	-121.1°

Antenna Base

Current Ratio:

Night	0.508	1.00	1.077	0.385	--	--
Day	-	1.00	--	--	0.342	0.544

Antenna Monitor Sample

Current Ratio:

Night	0.43	1.0	0.83	0.30	--	--
Day	--	1.00	--	--	0.375	0.499

*As indicated by Potomac Instruments AM-19D(210) antenna monitor.

DESCRIPTION OF AND FIELD STRENGTH OF MONITORING POINTS:

Direction of 275 degree true North. From the station, go right (SW) onto O'Grady Drive for 0.15 mile to Elder Mountain Road. Turn right (NW) onto Elder Mountain Road and go 1.5 miles to TVA construction road. Turn left (west) on the TVA construction road go 3.8 miles to the monitoring point, going up the mountain, around the Raccoon Mountain pumped Storage Lake, and across the dam. The monitor point is in the center of the dam marked with an orange spot on the east guard rail. The reading is taken in the middle of the road. The field intensity measured at this point should not exceed 58.8 mV/m. Daytime.

Direction of 29 degree true North. From the station, turn left (NE) onto O'Grady Drive. Go 1.8 miles on O'Grady Drive and take the first dirt road to the one lane dirt road for 0.4 mile until it comes to an end. Turn right onto the paved road and go 0.05 mile to the monitoring point. The point is 30 feet off the road and 20 feet east of lake. Radial Point number 13. Distance from transmitter 1.80 miles. The field intensity measured at this point should not exceed 10.1 mV/m. Nighttime.

Direction of 219 degree true North. From the station, turn right (SW) onto O'Grady Drive and go 0.15 mile to Elder Mountain Road. Turn left (SE) onto Elder Mountain Road and go 0.3 mile to Brown's Ferry Road. Turn right (SW) onto Brown's Ferry Road and go 0.8 mile to Browndell Road. Turn right (NW) onto Browndell Road and go 0.6 mile to Isbill Road. Turn left (south) onto Isbill Road and go 0.4 mile to Kelly's Ferry Road. Turn right (west) onto Kelly's Ferry Road and go 0.4 mile to the monitoring point. The point is across from 3902 Kelly's Ferry Road on top of a manhole cover marked with an orange dot. Radial point number 14. Distance to transmitter 1.68 miles. The field intensity measured at this point should not exceed 15.1 mV/m. Nighttime.

Direction of 267 degree true North. From the station, go right (SW) onto O'Grady Drive. Go 0.15 mile to Elder Mountain Road. Turn right (NW) onto Elder Mountain road and go 1.5 miles to the TVA construction road. Turn left (SW) on the TVA road and go 0.95 mile to the monitoring point. The point is marked with an orange spot on the guard post on the SE side of the road. Radial point number 5. Distance from transmitter 1.14 miles. The field intensity measured at this point should not exceed 36 mV/m. Nighttime.

Direction of 304 degree true North. From the station, turn right (SW) onto O'Grady Drive and go 0.15 mile to Elder Mountain Road. Turn right (NW) onto Elder Mountain Road. Follow Elder Mountain Road for 1.1 miles to the monitoring point, which is marked with an orange dot on the right (east) side of the road. Radial point number 5. Distance to transmitter 0.70 miles. The field intensity measured at this point should not exceed 92.4

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mV/m. Nighttime.

Direction of 341 degree true North. From the station, turn right (SW) onto O'Grady Drive and go 0.15 mile to Elder Mountain Road. Turn right (NW) onto Elder Mountain Road. Go up Elder Mountain Road for 2.1 miles to the (east) side of the road. Radial Point number 10. Distance to transmitter 1.28 miles. The field intensity measured at this point should not exceed 21.9 mV/m. Nighttime.