Bob

FCC Form 352
May 1988

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

File No. : BS-960604WG

AM BROADCAST STATION LICENSE

Call Sign : WKHX

LICENSEE: Capital Cities/ABC, Inc.

1. **Community of License. . .** : Atlanta, Georgia

2. **Transmitter location. . . . .** : North of Clay Rd, 1.6 km East of Powder Springs Cobb County; near Powder Springs, Georgia

West Longitude . . . . . : 84° 38′ 40″

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

4. **Main Studio Location:** *(See Section 73.1125)*
210 Interstate North, Sixth Fl
Atlanta, GA 30339

5. **Remote control location**
(Same)

6. **Antenna and ground system:**
Attached

7. **Obstruction marking and lighting specifications - FCC Form 715, paragraphs:** 1, 3, 12 & 21.

8. **Frequency. . . . . :** 590 **kHz**

9. **Nominal power (kW). . . . . :** 5.0 **Day** 4.5 **Night**

Antenna input power (kW) :

5.4 **Day** ☐ **Non-directional antenna :** **current** 10.4 **amperes: resistance** 50 **ohms.**
☑ **Directional antenna :**

4.86 **Night** ☐ **Non-directional antenna :** **current** 9.86 **amperes: resistance** 50 **ohms.**
☑ **Directional antenna :**

10. **Hours of operation :** BP-870414AC and BMP-870326AV

11. **Conditions. . . . . :** ---

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,[1] the LICENSEE is hereby authorized to use and operate the radio transmitting apparatus herein described for the purpose of broadcasting for the term ending 3 A.M. Local Time
April 1, 1996 (renewal pending)

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.
The license is issued on the licensee's representation that the statements contained in the 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, as amended. This license is subject to the right f or control by the Government of the United States conferred by section 606 of the Communications Act of 1934, as amended.

EAL:rao

[1] This license consists of this page and pages 2 & 3

Dated: AUG 2 2 1996

FEDERAL COMMUNICATIONS COMMISSION

FCC Form 353-A
June 1980

File No.: BS-960604WG **Call Sign:** WKHX

1. **DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM**
No. and Type of Elements: Four (4) vertical, guyed series excited steel radiators of uniform cross section. Theoretical RMS: 754.4 mV/m @ 1km, Standard RMS: 793.6 mV/m @ 1 km Day; Theoretical RMS Night: 715.7 Mv/m @ 1 km, Standard RMS: 752.9 mV/m @ 1km. Q = 46 day, 43.7 Night

Height above Insulators: 128 m (90.7°)

Overall Height: 130.4 m

Spacing and Orientation: Towers are spaced 90° apart on a line bearing 131.6°

Non-Directional Antenna: None Used.

Ground System consists of 120 equally spaced, buried, copper radials about the base of each tower 127 meters in length except where bonded to a transverse copper strap placed midway between towers.

2. **THEORETICAL SPECIFICATIONS**

Towers:		#1(NW)	#2(NC)	#3(SE)	#4(SE)
Phasing:	Night & Day:	155.4°	0°	-153°	41.0°
Field Ratio:	Night & Day:	0.435	1.0	0.965	0.513

3. **OPERATING SPECIFICATIONS**

Phase Indication*:	Night & Day:	151.4°	0°	93.4°	172.1°
Antenna Base Current Ratio:	Night:	0.435	1.0	0.909	0.512
	Day:	0.431	1.0	0.907	0.510
Antenna Monitor Sample Current Ratio:	Night & Day:	0.483	1.0	0.873	0.458

* **As indicated by** Potomac Instruments 1901 Antenna Monitor.
Antenna sampling system approved under Section 73.68 (b) of the Rules.

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DESCRIPTION OF AND FIELD INTENSITY MEASURED AT MONITORING POINTS:

Direction of 33 degrees True North. From 61.5 degree monitor point retrace steps to Hurt Road. (from Stage North Court turn left on Indian Springs; go two blocks to Mulkey Road. Turn left and go 0.1 mile to Cherokee Trails Drive; turn right and go 1 block to Calvary Hill; turn right and go 2 blocks to Merry Oak Drive; turn left and go 0.2 mile to Merry Oak Rd.; turn right and go 0.4 mile to Hurt Road.) Turn left on Hurt Road. Follow Hurt Road for 1.3 mile to 2450 Hurt Road, on the right. Monitor point is at mailbox at 2450 Hurt Road. The distance from the array is 3.12 km. Field strength measured at this point should not exceed 36.5 mV/m Daytime.

Direction of 61.5 degrees True north. From transmitter gate turn right (East) on Chestnut Grove and proceed 3 blocks (0.25 miles) to Ewing Road. Turn left on Ewing road and proceed (0.8 mi.) to the stop sign. Turn left on Anderson Farm Rd. and proceed 0.55 miles to the next intersection. Turn right on Powder Springs Road and proceed 0.3 miles to Hurt Road. Turn right on Hurt Road and proceed 1.4 miles to Woodmere Subdivision. Turn right on Merry Oak Road and proceed 0.4 mile to Merry Oak Drive. Turn left on Merry Oak Drive and proceed 0.2 miles to Calvary Hill. Turn right on Calvary Hill, go two blocks to Cherokee Trails Drive. Turn left and go one block to Mulkey Rd. Turn left on Mulkey Road and go 0.1 miles to Indian Springs. Turn right on Indian Springs and go 2 blocks to Stage North Court. Turn right on State North Court and go to end of cul-de-sac. Monitor point is at mailbox at 3875 Stage North Court. The distance from the array is 3.20 km. Field strength measured at this point should not exceed 37.9 mV/m Daytime.

Direction of 201.5 degrees True North. From 290 degree monitor point, continue on Austell Road 2.0 mile to Bloomfield Avenue. Turn right on Bloomfield Avenue and proceed 0.5 mile to Mathis Avenue. Go left on Mathis Avenue for 1 block to Clark Street. Monitor point is at yield sign at intersection of Clark and Mathis Streets. The distance from the array is 2.09 km. Field strength measured at this point should not exceed 89.6 mV/m Daytime.

Direction of 290 degrees True North. From 333 degree monitor point, continue on Powder Springs Road 1.2 mile to Austell Road and turn left. Proceed 0.45 mile to Powder Springs Shopping Center on right. Monitor point is 20 feet south of the Powder Springs Shopping Center sign. The distance from the array is 2.46 km. Field strength measured at this point should not exceed 18.0 mV/m Daytime.

Direction of 333 degrees True North. From 33 degree monitor point, continue on Hurt Road 0.1 mile to Powder Springs Road and turn left. Proceed 1.7 mile just past Noses Creek Bridge. Monitor Point is on the right side of Powder Springs Road at the west end of the Noses Creek bridge guard rail. The distance from the array is 1.70 km. Field strength measured at this point should not exceed 22.6 mV/m Daytime.