UNITED STATES OF AMERICA FEDERAL COMMUNICATIONS COMMISSION

AM BROADCAST STATION LICENSE

File No. : BL-890104AB

Call Sign : WKHX

LICENSEE:				
	Capit	al Citie	s/ABC, In	ic.
2. Transmitter location:	North of East of Cobb Co Springs	360 Interstate North		
West longitude ::	ر 84	50, 38'	45 40"	(Same)
6. Antenna and ground system:	A MITT A CITY		, 0	
7. Obstruction marking and light 8. Frequency :	590	kHz	Form 715, para ·	, ,
9. Nominal power (kW) ::::::::::::::::::::::::::::::::::::		Day		4.5 Night
Antenna input power (kW): 5.4		Non-directiona Directional and		10.4amperes; resistance50ohms
4.8	Night	Non-directiona Directional and	al antenna: tenna = ; current	9,86 amperes; resistance 50 ohms
O. Hours of operation: Specified	d in $BP-87$	0414AC a	and BMP-8	70326AV
1. Conditions ::	ATTACHED			
made thereunder, and further :	subject to co	nditions set f	forth in this lic	nended, subsequent Acts, Treaties, and Commission rules ense, ¹ the LICENSEE is hereby authorized to use and of broadcasting for the term ending 3 A.M. Local Time

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.

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 of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934, as amended.

SN/ed





 $^{^{1}}$ This license consists of this page and pages $\,\,2\,\,$ and $\,3\,\,$ Dated: JUL 2 7 1989

FCC Form 353-A
June 1980

File NO. BL-890104AB

Call Sign: WKHX

Date

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

steel radiators of uniform cross Section. Theoretical RMS 754.4 mV/m @ 1 km, Std. RMS: 793.6 mV/m @ 1 km Day; Theo. RMS. Night 715.7 mV/m @1 km, Std. RMS: 752.9 mV/m @ 1 km. Q = 46 day 43.7 night.

Height above Insulators: 128m (90.7°)

Overall Height: 130.4m

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								
	Tower	#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	152.5°	0°	94.1°	173.1°				
	Antenna Base								
	Current Ratio:								
	Night	0.435	1.0	0.908	0.512				
	Day	0.431	1.0	0.907	0.510				
	Antenna Monito Current Ratio:	r Sample							
	Night & Day	0.478	1.0	0.872	0.455				

^{*} As indicated by Potomac Instruments AM-19D (210) antenna Monitor. Antenna sampling system approved under section 73.68(b) rules.

BL-890104AB

WKHX

Description of and Field Strength at Monitoring Points

Direction or 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 Ma. and proceed 0.55 miles to the next interpretation. Turn regular

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 3075 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 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 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.

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 17.2 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.