

AM BROADCAST STATION CONSTRUCTION PERMIT

1. Permittee:
CAPITAL CITIES / ABC, INC.

2. Station location : Atlanta, GA
3. Transmitter location : North of Clay Rd. one mile
East of Powder Springs Near

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

AUTHORIZATION

North Latitude : 33° 50' 43"
West Longitude : 84° 38' 40"
4. Main studio location :
*(Listed only if not at transmitter site or not within
boundaries of principal community.)*

5. Remote control location :
6. Transmitter : Type accepted
*(See Section 73.1660, 73.1665 and 73.1670 of the
Commission's Rules.)*

7. Antenna and ground system: Attached

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

9. Operating Assignment
Frequency : 590 kHz
Power-Night : 4.5 Kw (Directional Antenna)
Day : 5 Kw (Directional Antenna)
Hours of Operation : Unlimited
10. Conditions : Attached

11. Deadline for completion of construction and filing FCC Form 302: 6 months from date of grant (shown below)

Subject to the provisions of the Communications Act of 1934, as amended, treaties, and Commission Rules, and further subject to conditions set forth in this permit,¹ authority is hereby granted to construct an AM broadcast station located and described as above.

Equipment and program tests shall be conducted only pursuant to Sections 73.1610 and 73.1620 of the Commission Rules.

This permit shall be forfeited if the station is not ready for operation within the time specified or within such further time as the Commission may allow unless completion of the station is prevented by causes not under the control of the permittee. See Section 73.3599 of the Commission's Rules.

¹ This construction permit consists of this page and page(s)

Dated MAR 4 1988

MAS/asj

FEDERAL
COMMUNICATIONS
COMMISSION



1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM DA _____

No. and Type of Elements: Four(4) vertical, guyed series excited 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 nigh

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

	Tower	#1(NW)	#2(NC)	#3(SE)	#4(SE)
Phasing:	Night	155.4°	0°	-153°	41.0°
	Day	155.4°	0°	-153°	41.0°

Field Ratio:	Night	0.435	1.0	0.965	0.513
	Day	0.435	1.0	0.965	0.513

3. The inverse distance field intensity at a distance of one kilometer from the above antenna in the directions specified shall not exceed the following values:

Azimuth	Day	Radiation	Azimuth	Night	Radiation
33.0°		174.29 mV/m	33°		165.37 mV/m
61.5°		174.24 mV/m	61.5°		165.37 mV/m
201.5°		174.24 mV/m	201.5°		165.32 mV/m
290.0°		90.49 mV/m	290°		85.88 mV/m
333.0°		90.49 mV/m	333°		85.88 mV/m

A monitoring point in each of the above directions in which a field intensity is specified shall be designated with complete detail including a description of the point, directions for proceeding thereto and the field intensity measured at the point after final adjustment of the antenna system in exact accordance with the terms of this authorization and the Rules and Regulations and Standards of Good Engineering Practice Governing Standard Broadcast Stations. The points shall be in the clear so as to permit the taking of unobstructed field intensity measurements and shall be located not less than one mile nor more than four miles from the antenna in the direction specified.

No operation shall occur other than during the experimental period until data has been submitted showing that operation is in accordance with the above specifications and that the field intensity pattern is in substantial agreement with the theoretical pattern specified in the application

THE AUTHORITY GRANTED IS SUBJECT TO THE FOLLOWING CONDITIONS:

A complete nondirectional proof of performance, in addition to a complete proof on the day directional antenna system, shall be submitted before ~~Program Data are authorized. The nondirectional and directional field~~ strength measurements must be made under similar environmental conditions.

Permittee shall install a type accepted transmitter, or submit application (FCC Form 301) along with data prescribed in Section 73.1660(b) should non-type accepted transmitter be proposed.

Permittee shall modify its facilities to protect the 2.5 mV/m nighttime interference free contour of station HIDV, La Vega, D.R., if the Dominican Republic does not agree to apply the terms of Region 2 agreement in lieu of NARBA.