

TECHNICAL EXHIBIT
APPLICATION FOR MODIFICATION OF
AUXILIARY ANTENNA LICENSE
FCC FILE NO. BXLH-20000524ADU
STATION WYAY
GAINESVILLE, GEORGIA
CH 294C 19 KW 315 M

Technical Narrative

The technical exhibit of which this narrative is part was prepared in support of an application for modification of the auxiliary antenna license (BXLH-20000524ADU) for FM station WYAY at Gainesville, Georgia. The current WYAY auxiliary license is for operation on channel 294C (106.7 MHz) with an effective radiated power (ERP) of 100 kW and an antenna height above average terrain (HAAT) of 315 meters. The licensed auxiliary operation is from the currently licensed main antenna site for WYAY (BLH-19970701KZ). However, WYAY has been authorized by outstanding construction permit (BMPH-20050923AAD) to change its main antenna site and operate on channel 294C with a nondirectional antenna maximum ERP of 77 kW and an HAAT of 505 meters.¹ A copy of the WYAY main antenna construction permit (BMPH-2000050923AAD) is attached as Figure 1. Condition 4 of the WYAY main antenna construction permit indicates that a reduction in the WYAY licensed auxiliary ERP to 19 kW (without other changes) would permit compliance with Section 73.1675 and that such a change could be made using FCC Form 302-FM. Therefore, the purpose of this application on FCC Form 302-FM is to simply reduce the WYAY licensed auxiliary ERP from 100 kW to 19 kW to permit compliance with Section 73.1675. The reduction in ERP will be accomplished by reducing the transmitter power output from 37 kW to 7 kW.

Compliance With Section 73.1675(a)

Figure 2, attached, is a map which demonstrates that the proposed auxiliary facility complies with the provisions of Section 73.1675(a).

¹ The authorized WYAY facilities are currently being constructed and a license application will be filed shortly.

Environmental Considerations

The proposed WYAY auxiliary facilities were evaluated in terms of potential radiofrequency radiation exposure at 2 meters above ground level in accordance with the OST Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation". This Bulletin provides assistance in determining whether FCC-regulated transmitting facilities, operations or devices comply with limits for human exposure to radiofrequency (RF) electromagnetic fields adopted by the Commission in 1996.

The Shively 6-bay, 1-wavelength bay spacing, auxiliary antenna is mounted at the 358 meter level on the existing tower structure. The calculated power density at 2 meters above ground level at the base of the tower was calculated using the appropriate equation contained in the Bulletin. Using a greater than expected vertical relative field value of 0.3 for the Shively 6-bay antenna (see vertical plane relative field pattern attached as Figure 3), the total ERP of 38 kW (H+V) and an antenna center of radiation height above ground level of 358 meters, the calculated power density at two meters above ground level at the base of the tower is 0.0009 milliwatt per square centimeter (mW/cm^2), or 0.45 percent of the Commission's recommended limit applicable to general population/uncontrolled exposure areas ($0.2 \text{ mW}/\text{cm}^2$ for FM channel 294). Therefore, based on the responsibility threshold of 5%, the proposal will comply with the new RF emission rules.

Access to the tower site will be restricted and appropriately marked with warning signs. Furthermore, as this is a multi-user site, procedures will be in effect in the event that workers or other authorized personnel enter the restricted area or climb the tower to ensure that appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such procedures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing

and/or RFR exposure monitors or scheduling work when the station is at reduced power or shut down.



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September 30, 2005

United States of America
FEDERAL COMMUNICATIONS COMMISSION
FM BROADCAST STATION CONSTRUCTION PERMIT

Authorizing Official:

Official Mailing Address:

ABC RADIO ATLANTA, LLC
77 WEST 66TH STREET
16TH FLOOR
NEW YORK NY 10023

Dale E. Bickel
Senior Engineer
Audio Division
Media Bureau

Facility ID: 48727

Grant Date: September 29, 2005

Call Sign: WYAY

The authority granted herein has no effect on the expiration date of the underlying construction permit.

Permit File Number: BMPH-20050923AAD

This permit modifies permit no.: BPH-20041015ADD.
This permit expires March 30, 2008.

Subject to the provisions of the Communications Act of 1934, as amended, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this permit, the permittee is hereby authorized to construct the radio transmitting apparatus herein described. Installation and adjustment of equipment not specifically set forth herein shall be in accordance with representations contained in the permittee's application for construction permit except for such modifications as are presently permitted, without application, by the Commission's Rules.

Commission rules which became effective on February 16, 1999, have a bearing on this construction permit. See Report & Order, Streamlining of Mass Media Applications, MM Docket No. 98-43, 13 FCC RCD 23056, Para. 77-90 (November 25, 1998); 63 Fed. Reg. 70039 (December 18, 1998). Pursuant to these rules, this construction permit will be subject to automatic forfeiture unless construction is complete and an application for license to cover is filed prior to expiration. See Section 73.3598.

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

Name of Permittee: ABC RADIO ATLANTA, LLC

Station Location: GA-GAINESVILLE

Frequency (MHz): 106.7

Channel: 294

Class: C

Hours of Operation: Unlimited

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

Transmitter output power: As required to achieve authorized ERP.

Antenna type: Non-Directional

Antenna Coordinates: North Latitude: 33 deg 52 min 02 sec
West Longitude: 83 deg 49 min 44 sec

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the Horizontal Plane (kW):	77	77
Height of radiation center above ground (Meters):	537	537
Height of radiation center above mean sea level (Meters):	772	772
Height of radiation center above average terrain (Meters):	505	505

Antenna structure registration number: 1238554

Overall height of antenna structure above ground (including obstruction lighting if any) see the registration for this antenna structure.

Special operating conditions or restrictions:

1 The permittee/licensee in coordination with other users of the site 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 ***** This is a Section 73.215 contour protection grant *****
***** as requested by this applicant *****

Special operating conditions or restrictions:

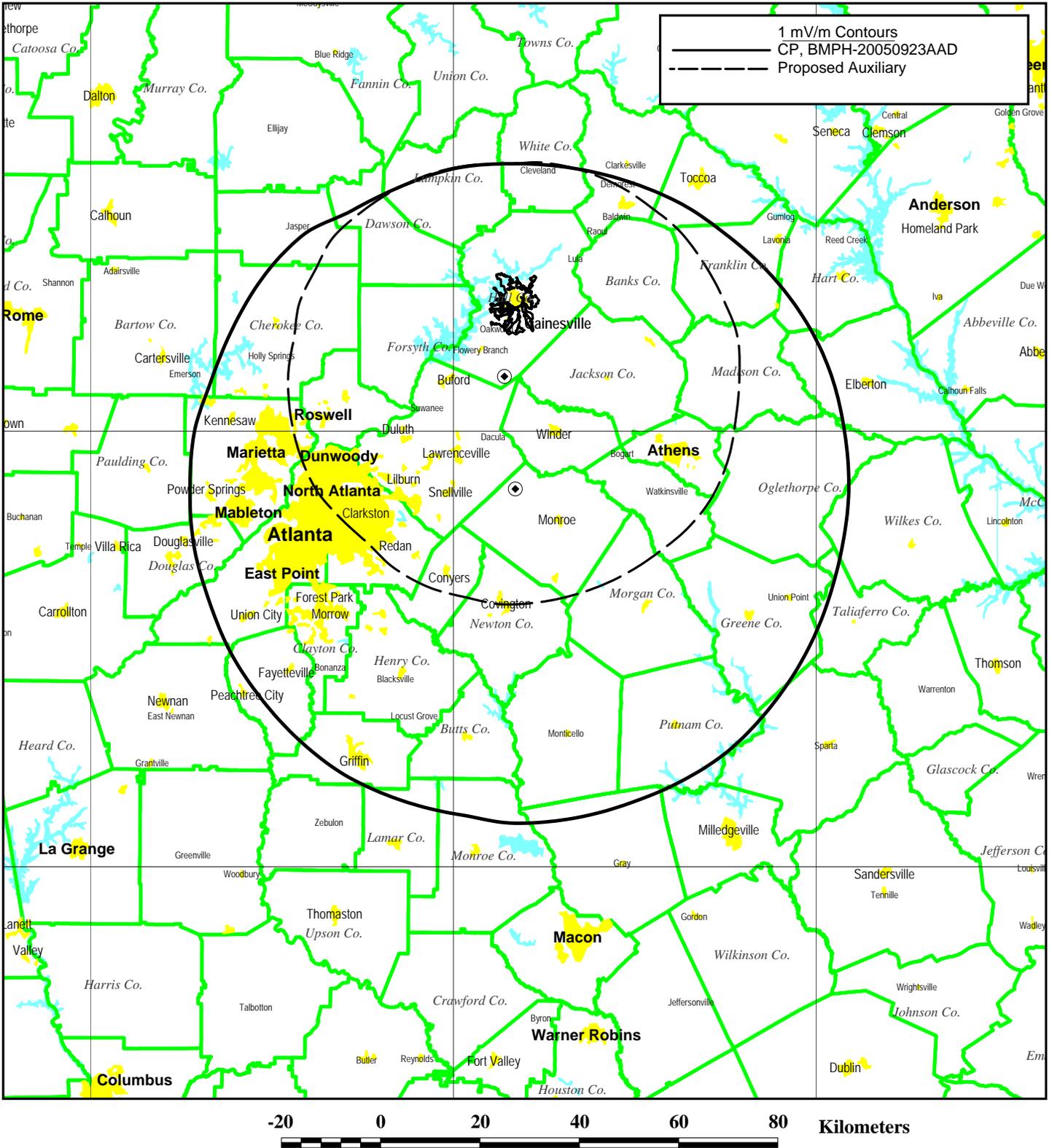
- 3 BEFORE PROGRAM TESTS COMMENCE, sufficient measurements shall be made to establish that the operation authorized in this construction permit is in compliance with the spurious emissions requirements of 47 C.F.R. Sections 73.317(b) through 73.317(d). All measurements must be made with all stations simultaneously utilizing the shared antenna. These measurements shall be submitted to the Commission along with the FCC Form 302-FM application for license.

- 4 BEFORE PROGRAM TESTS COMMENCE, the permittee must cease operation of the WYAY (FM) auxiliary facility BXLH-20000524ADU (Facility ID No. 48727). Furthermore, the permittee must request cancellation of that auxiliary license, or file an application to modify the auxiliary facility that will comply with Section 73.1675(a) concurrently with the filing of the application for license to cover this construction permit. Documentation demonstrating compliance with this condition must be submitted with the Form 302-FM application for license to cover this construction permit.

If the permittee desires to reduce the power of auxiliary facility BXLH-20000524ADU to comply with Section 73.1675 without other changes, the permittee may do so on a Form 302-FM modification of license application, provided that the auxiliary facility's ERP does not exceed 19.0 kilowatts (kW).

*** END OF AUTHORIZATION ***

Figure 2



COMPLIANCE WITH SECTION 73.1675(a)

PROPOSED AUXILIARY OPERATION
FM STATION WYAY
GAINESVILLE, GEORGIA
CH 294C 19 KW 315 M

FIELD ELEVATION PATTERN

ANT. MFG.: SHIVELY LABS

ANT. TYPE: 6 BAY STD.

Power Gain 3.28 5.16 dB

Figure 3

