

**MODIFY BNP-20010612ADO**  
**FLAG RADIO, INC.**  
**WAYI AM RADIO STATION**  
**has: 1550 kHz - 0.20/9.3 kW - DAN**  
**req: 1550 kHz - 0.52/9.5 kW - DAN**  
**BUNNELL, FLORIDA**  
**December 2005**

This Technical Exhibit supports the application by Flag Radio, Inc. ("Flag"), permittee of AM Broadcast station WAYI, 1550 kHz, Bunnell, Florida, to make minor changes to the authorized facility by relocating their daytime and nighttime transmitter sites to co-locate, slightly increasing daytime and nighttime power and modifying the nighttime directional antenna system. This application is necessary due to the loss of the lease for both the previously authorized daytime and nighttime sites and to the desire to consolidate the daytime and nighttime operation of WAYI. This proposal constitutes a "minor change" under the Commission's rules.

The daytime antenna system will consist of one uniform cross-section, guyed tower, 85.1 electrical degrees in height, utilizing a series fed antenna system. At 1550 kHz, with a full length ground system consisting of 120 equally spaced buried copper radial wires, each 48.35 meters (158 feet) in length, except as may be terminated by the property boundaries, the theoretical efficiency for the proposed radiator is 302.53 mV/m/kW/km. Due to the relatively short height of the proposed tower, there is no requirement for FAA clearance or FCC registration. This was determined using the FCC program TOWAIR. It is not proposed to mark or light these towers.

Site photos of the proposed antenna/transmitter location and surrounding terrain characteristics are attached as Exhibits #1J(1) through #1J(4). The population within the

proposed WAYI daytime 1000 mV/m contour is less than 300 persons. This contour is shown in Exhibit #1C. In response to all complaints of blanketing interference, the applicant will undertake steps to mitigate the blanketing effects in accordance with the requirements of §73.88. There are no authorized AM Broadcast facilities within 3 kilometers or authorized FM Broadcast or Television facilities within 10 kilometers of the proposed facility.

The present and proposed daytime 1000 mV/m, 5.0 mV/m, 2.0 mV/m and 0.5 mV/m service contours are shown in Exhibit #1A through #1C. The proposed 5.0 mV/m city grade service contour completely encompasses the city of Bunnell. The present and proposed nighttime 1000 mV/m and Nighttime Interference Free (“NIF”) contours are shown in Exhibit #1D and #1E. While the proposed NIF contour does not completely encompass the city of Bunnell, it does provide service to 81.35% of the area and 100% of the population of Bunnell.

A waiver of the power limitation with respect to the Bahama Islands is requested.<sup>1</sup> It is noted that no known stations in the Bahama Islands will be adversely affected by the implementation of this service. Included as Exhibit #2E is a map demonstrating the daytime and nighttime 0.5 mV/m contours of the proposed WAYI facility. It is noted that the proposed daytime facility will reduce the signal from the permitted facility in the direction of the Bahamas.

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1) §73.21 Note: Until the North American Regional Broadcasting Agreement (NARBA) is terminated with respect to the Bahama Islands and the Dominican Republic, radiation toward those countries from a Class B station may not exceed the level that would be produced by an omnidirectional antenna with a transmitted power of 5 kW, or such lower level as will comply with NARBA requirements for protection of stations in the Bahama Islands and the Dominican Republic against objectionable interference.

§73.25 Note: Until superseded by a new agreement, protection of the Bahama Islands shall be in accordance with NARBA. Accordingly, a Class A, Class B or Class D station on 1540 kHz shall restrict its signal to a value no greater than 4  $\mu$ V/m groundwave or 25  $\mu$ V/m-10% skywave at any point of land in the Bahama Islands, and such stations operating nighttime (i.e., sunset to sunrise at the location of the U.S. station) shall be located not less than 650 miles from the nearest point of land in the Bahama Islands.

We have tried to be as accurate as possible in the preparation of this application. All information contained herein was extracted from the CDBS database. We assume no liability for omissions or errors in this source. Should there be any questions concerning the information contained herein, we welcome the opportunity to discuss the matter by phone at 912-638-8028 or by email at [rsg@grahambrock.com](mailto:rsg@grahambrock.com).