

MINOR CHANGE APPLICATION
T K RADIO, INC.
WSBB AM RADIO STATION
1230 kHz - 1.0 kW - NDU
NEW SMYRNA BEACH, FLORIDA
November 2005

This Technical Exhibit supports the application by T K Radio, Inc., licensee of AM Broadcast station WSBB, 1230 kHz, New Smyrna Beach, Florida, to relocate their transmitter site and reduce tower height while maintaining their present radiated field. WSBB must vacate its present site, therefore, this instant application proposes to relocate WSBB to a new tower as close as possible to the licensed site. WSBB is a limited radiation Class C station and proposes to operate with a power of 1.0 kilowatt full time, utilizing a non-directional antenna which virtually duplicates the radiated field and signal of the licensed facility. This proposal constitutes a "minor change" under the Commission's rules.

The antenna system will consist of one uniform cross-section, guyed tower 40.518 electrical degrees in height, with a 3-wire folded unipole feed system. At 1230 kHz, with a full length ground system consisting of 120 equally spaced buried copper radial wires, each 60.96 meters (200 feet) in length the theoretical efficiency for the proposed radiator is 271.272 mV/m/kW/km. The proposed ground system will consist of 120 equally spaced, buried copper radial wires, each 60.96 meters (200 feet) in length, extending out from the base of the tower. Where necessary the radial wires will cross beneath access roads, and extend around existing structures by a perimeter ground strap, extending from the far side of the structure to 60.96

meters, as permitted by easement agreement, and will extend out into the water area, weighted by bricks to the waterway bottom.

With a transmitter power of 1.0 kilowatt, the proposed theoretical transmitted field is 271.272 mV/m, greater than the minimum of 241 mV/m, as required by §73.189. 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.

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 WSBB 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 AM Broadcast facilities within 3.2 kilometers of the proposed WSBB transmitter site. Within 10 kilometers, there are numerous licensed FM facilities and one TV facility (Exhibit 1K). We note that this is an existing tower and no detrimental interaction is expected to occur with any station due to the relocation of WSBB.

The present and proposed daytime 1000 mV/m, 5.0 mV/m, 2.0 mV/m and 0.5 mV/m and Nighttime Interference Free ("NIF") service contours are shown in Exhibit #1A through #1C.

The proposed 5.0 mV/m city grade service contour completely encompasses the city of New Smyrna Beach and there is virtually no change in the coverage of New Smyrna Beach by the respective NIF contours.

The proposed site is located only 1.9 kilometers (less than 3.2 kilometers) away from the currently authorized site and the proposed facilities are equivalent to those currently authorized. Therefore, a daytime allocation study is not included herein. However, a printout of the co- and adjacent channel stations which affect 1230 kHz in New Smyrna Beach is included as Exhibit #2.

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.