

Engineering Exhibit
WLDI(FM), Fort Pierce, FL
Channel 238C1 - FID 2680
Application for Construction Permit
Auxiliary Antenna

INTRODUCTION

The purpose of this application is to authorize the use of an existing antenna and an auxiliary for WLDI(FM). The proposed antenna is a licensed auxiliary for WKGR(FM), Fort Pierce, FL, file number BXLH-20030827AFI. The licensee will not install a combiner and it will not be possible for WLDI and WKGR to operate from the auxiliary antenna simultaneously. An application is also being filed to make minor corrections to the WKGR Auxiliary License.

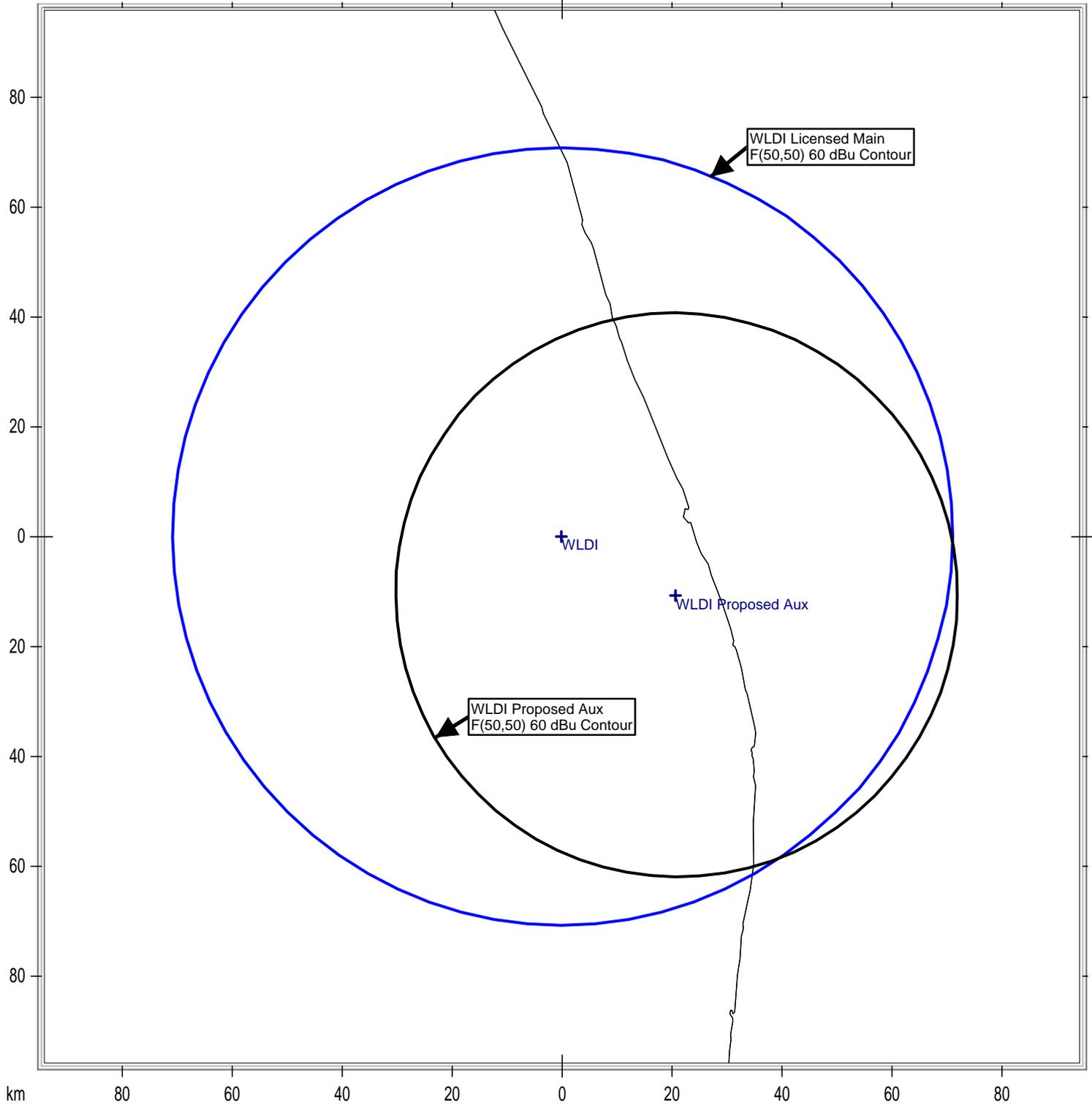
Figure 01 shows the F(50,50) 1.0 mV/m (60 dBu) contours of the proposed auxiliary antenna and the licensed main antenna. While the 1.0 mV/m (60 dBu) contour of the proposed auxiliary antenna does exceed the 1.0 mV/m (60 dBu) contour of the licensed main antenna, it does so only over water, thus, the 1.0 mV/m (60 dBu) contour of the proposed auxiliary antenna does not exceed the 1.0 mV/m (60 dBu) contour of the licensed main antenna over any populated areas. It is therefore believed that the proposed auxiliary antenna meets the requirements of section 73.1675(a) of the FCC Rules.

RF RADIATION COMPLIANCE

The Proposed facilities were evaluated in terms of potential radio frequency radiation exposure at ground level in accordance with OET Bulletin No. 65 "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radio Frequency Radiation".

The proposed antenna system is an EPA type 3, 4-bay, full-wave spaced "Rototiller" antenna mounted with its center of radiation 262 meters above ground level, and will operate with an effective radiated power of 15 Kilowatts in both the horizontal and vertical planes. At 2 meters above ground, at 108 meters from the base of the tower, this proposal will contribute worst case, 1.29 microwatts per square centimeter, or 0.13 percent of the allowable ANSI limit for controlled exposure, and 0.65 percent of the allowable limit for uncontrolled exposure. It is therefore believed that this proposal is in compliance with OET Bulletin No. 65 as required by the Federal communications Commission.

Further, the applicant will see that signs are posted in the vicinity of the tower, warning of potential radio frequency hazards at the site. The site itself is restricted from public access. The applicant will cooperate with other users of the tower to reduce power of the facility, or discontinue operations, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to climb the tower for maintenance or inspection.



State Borders