

**Comprehensive Engineering Exhibit**  
**WOLL(FM) Facility ID 32969**  
**Minor Change Application**  
**February 2009**

By this application, it is sought to relocate the antenna of WOLL(FM) to specify a new antenna height, location, and power.

It is proposed that WOLL(FM) will share the antenna of co-owned station WAVW(FM). This non-directional antenna is located 145 meters above ground level upon a tower identified by antenna structure registration number 1052692. The height above average terrain (HAAT) from this location is 147 meters.

As demonstrated in the attached spacing study, from this location WOLL(FM) is fully spaced as a class C2 facility in accordance with Section 73.207, to all known full power facilities, applications, and allocations with the exception of WBTT Naples Park, Florida. It is proposed to utilize contour protection in accordance with Section 73.215 with a reduced ERP of 37 kilowatts to prevent contour overlap. Attached is a contour map demonstrating the lack of prohibited contour overlap. From this location, Low Power FM (LPFM) station WBOF-LP Ch290 will become short spaced to WOLL. CCC has not identified an alternate channel for the LPFM which is not short spaced. WOLL will consent to the modification of its license to allow the continued operation of this 2<sup>nd</sup> adjacent LPFM facility. Since WOLL is not proposing to change city of license, WOLL is not required to provide an alternate channel for the LPFM station. Nevertheless, should the LPFM desire to change channels, WOLL will work with the LPFM station in order to identify another 2<sup>nd</sup> adjacent channel that may comply with the FCC's current waiver policy. Also from this location, Low Power FM (LPFM) station WBFT-LP Ch288 will become short spaced to WOLL. CCC has identified an alternate channel for the LPFM which is not short spaced. Channel 264 is available at the existing WBFT-LP antenna location. Since WOLL is not proposing to change city of license, WOLL is not required to provide an alternate channel for the LPFM station. Nevertheless, should the LPFM desire to change channels, WOLL will work with the LPFM station.

The proposed facility provides adequate principal community coverage of Hobe Sound. As demonstrated in the attached map, greater than 93 percent of the area, and greater than 98 percent of the population of Hobe Sound is located inside the proposed 70 dBu contour, thus substantial compliance with Section 73.315(a) has been demonstrated.

The proposed facility was 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, 1.0 wave spaced "Roto Tiller" style antenna, mounted with its center of radiation 145 meters above ground level. This proposal will operate with an effective radiated power of 37 kilowatts in both the horizontal and vertical planes. At 2 meters above ground, at 60 meters from the base of the tower, this proposal will contribute worst case 9.9 microwatts per square centimeter, or 0.99 percent of the allowable ANSI limit for controlled exposure, and 4.95 percent of the allowable limit for uncontrolled exposure. This figure is less than 5% of the applicable FCC exposure limit at all locations extending out from the base of the tower. Section 1.1307(b)(3) excludes applications when the calculated level is predicted to be less than 5% of the applicable exposure limit. It is therefore believed that this proposal is in compliance with OET Bulletin Number 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 operation, 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.

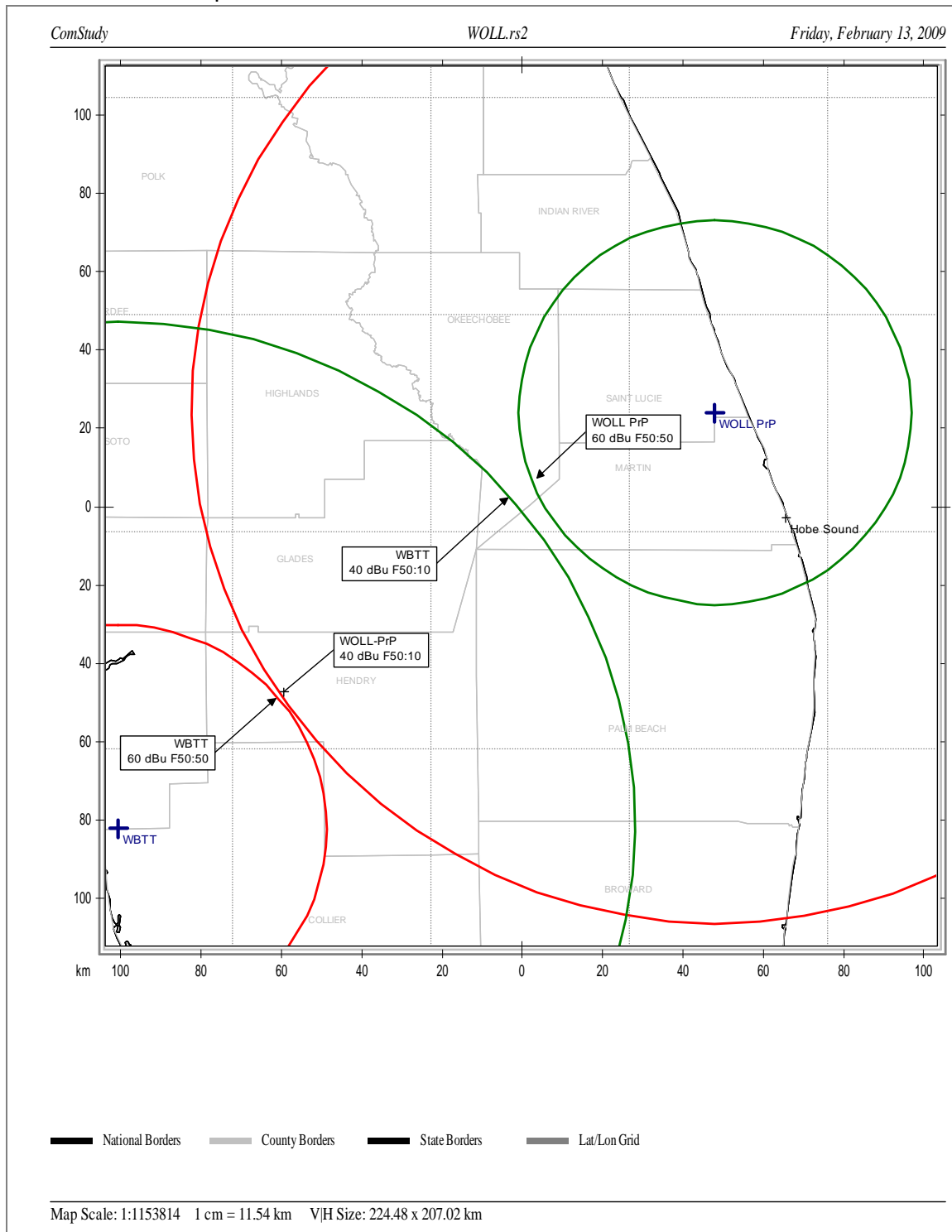
## Spacing Study

ComStudy 2.2 search of channel 288 (105.5 MHz Class C2) at 27-16-29.0 N, 80-17-11.0 W.

Callsign	State	City	Freq	Chanl	ERP_w	Class	Status	Dist_km	Sep	Clr
WOLL	FL	HOBE SOUND	105.5	288	50000	C2	LIC	60.48	190	-129.5
WBOF-LP	FL	FORT PIERCE	105.9	290	100	LP100	LIC	0	53	-53
WBFT-LP	FL	MICCO	105.5	288	100	LP100	LIC	72.51	91	-18.5
WBTT	FL	NAPLES PARK	105.5	288	23500	C2	LIC	183.11	190	-6.9
WWLL	FL	SEBRING	105.7	289	19000	C3	LIC	117.79	117	0.8
	FL	OKEECHOBEE	106.1	291	0	A	APP	61.41	55	6.4
WSYR-FM	FL	GIFFORD	94.7	234	50000	C2	LIC	32.1	20	12.1



## 73.215 Contour Map.



## 70 dBu Coverage of Hobe Sound

