

Engineering Exhibit
 WTKX-FM
 Facility ID 61243
 Minor Change Application
 August 9, 2005

By this application it is sought to correct the licensed parameters of WTKX- FM to specify corrected antenna height and geographical coordinates.

The WTKX-FM antenna is non-directional and is located 399 meters above ground level upon a tower with an overall height of 457.5 meters. This tower is more fully described by Antenna structure registration number 1030889.

From this location WTKX-FM is fully spaced as a Class C facility in accordance with Section 73.207 to all known facilities, applications and allocations, as demonstrated in Table 1 below.

A recent R.F. Radiation Compliance measurement is also attached, demonstrating that the site is in compliance with applicable regulations. No material changes at the site are known to have occurred since this study was completed in August of 2003.

Table 1

ComStudy 2.2 search of channel 300 (101.5 MHz Class C) at 30-35-16.0 N, 87-33-13.0 W

Callsign	State	City	Channel	ERP_w	Class	Status	Dist_km	Sep	Clr
WTKX-FM	FL	PENSACOLA	268	100000	C	LIC	0.1	290	-289.9
	MS	NEW AUGUSTA	269	0	A	APP	165.12	165	0.1
WFNU	AL	REPTON	266	0	A	USE	95.78	95	0.8
WQUA	AL	CITRONELLE	271	15000	C3	LIC	97.72	96	1.7
WQUA	AL	CITRONELLE	271	0	C3	USE	97.05	96	1
WFNU	AL	REPTON	266	3100	A	LIC	98.57	95	3.6
WTOT-FM	FL	GRACEVILLE	269	0	C3	USE	182.75	176	6.8
WTOT-FM	FL	GRACEVILLE	269	25000	C3	CP	182.75	176	6.8
WJDQ	MS	MERIDIAN	267	100000	C1	LIC	219.69	209	10.7
WJDQ	MS	MERIDIAN	267	0	C1	USE	219.69	209	10.7
WWAV	FL	SANTA ROSA BEACH	271	50000	C2	LIC	122.74	105	17.7
WWAV	FL	SANTA ROSA BEACH	271	0	C2	USE	136.83	105	31.8
WXSR	FL	QUINCY	268	0	C1	RSV	302.05	270	32.1
WTOT-FM	FL	GRACEVILLE	269	6000	A	LIC	200.97	165	36

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WTKX-FM, Pensacola, FL (FID#61243)

RF Radiation Compliance

Although WTKX-FM is not eligible to use the “RF Exposure Worksheet”, the facility does comply with the FCC established guidelines regarding exposure to RF electromagnetic fields as described in OET Bulletin 65 Edition 97-01. The alternate method for showing compliance is described below.

Facilities:

WTKX-FM is licensed for 100 kW ERP (H & V) and utilizes a 12-bay (3-around) panel antenna, mounted on a 458 meter, guyed tower with a Center of Radiation of 397 meters above ground level. This is a common antenna also used by WPCS(FM), WXBM-FM and WMEL-FM (all are 100 kW ERP H & V). This is also a common site with WJTC (analog), Channel 44, WJTC-DT (digital) Channel 45, WMPV-TV (analog) Channel 21 and WMPV-DT (digital) Channel 20.

General Population / Uncontrolled Exposure:

To determine the level of RF exposure, measurements were made on August 15, 2003 in all areas at the transmitter site and surrounding areas, whether or not they are accessible to the general public. A Narda survey meter model 8616 with 8662B probe was utilized. The probe is calibrated to read directly in mW/cm² for frequencies ranging from 300 kHz to 1.5 GHz. While this instrument does not compensate for the different allowable exposure levels at different frequencies, it does accurately display the total RF power density for all frequencies within the range of the instrument. Since the most stringent allowable exposure levels occur in the range of 30-300 MHz, readings that do not exceed the allowable exposure levels (1.0 mW/cm² for Occupational / Controlled Exposure and 0.2 mW/cm² for General Public / Uncontrolled exposure) adequately demonstrate compliance with the FCC established guidelines for exposure to RF electromagnetic fields as described in OET Bulletin 65 Edition 97-01. The “Max Hold” setting was used to record the highest levels measured. Measurements were made at 2 meters above the ground while walking the entire area at the site and in the adjacent areas out to a distance of 500 meters from the tower base.

The maximum RF exposure level measured was 0.075 mW/cm² or 7.5% of the Occupational / Controlled Exposure limit which occurs at a distance of 50 meters from the tower base, and drops off as the distance from the tower is increased. This is well below the 20% limit for General Population / Uncontrolled Exposure. Therefore, WTKX-FM does comply with OET Bulletin 65 with regard to General Population / Uncontrolled Exposure.

Occupational / Controlled Exposure:

Using the measurement methods described above, measurements were also taken within the transmitter building and near the tower base. All readings inside the tower fence and inside the transmitter buildings were less than 0.020 mW/cm² or 2.0% of the Occupational / Controlled Exposure limit. Therefore, WTKX-FM also complies with OET Bulletin 65 Edition 97-01 with regard to Occupational / Controlled Exposure.



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