

Comprehensive Engineering Exhibit
WTKX(FM) Facility ID 61243
Minor Change Application
February 27, 2007

By this application it is sought to modify the permit of WTKX(FM) to specify a new antenna height and location.

The proposed WTKX(FM) antenna is to be non-directional and will be located 488 meters above ground level upon a tower described by antenna structure registration number 1064671. This antenna will be shared with WYCL(FM) which is filing by separate application for change.

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 with the exception of the 3rd adjacent permit of WQUA, Citronelle, Florida. This application requests spacing in accordance with Section 73.215. Figure 1 is a spacing study, Figure 2 a map demonstrating no prohibited contour overlap from or to the facilities proposed.

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 a Shively 6014 12- bay, 1.09 wave spaced antenna, mounted with its center of radiation 488 meters above ground level. This proposal will operate with an effective radiated power of 100 kilowatts in both the horizontal and vertical planes. At 2 meters above ground, at 157 meters from the base of the tower, this proposal will contribute worst case 2.21 microwatts per square centimeter, or 0.4 percent of the allowable ANSI limit for controlled exposure, and 2.0 percent of the allowable limit for uncontrolled exposure. These figures were determined from the attached manufacturer vertical plane plot in conjunction with use of the microcomputer program RfHAZ from V-Soft Communications.

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 regardless of other nearby radiators.

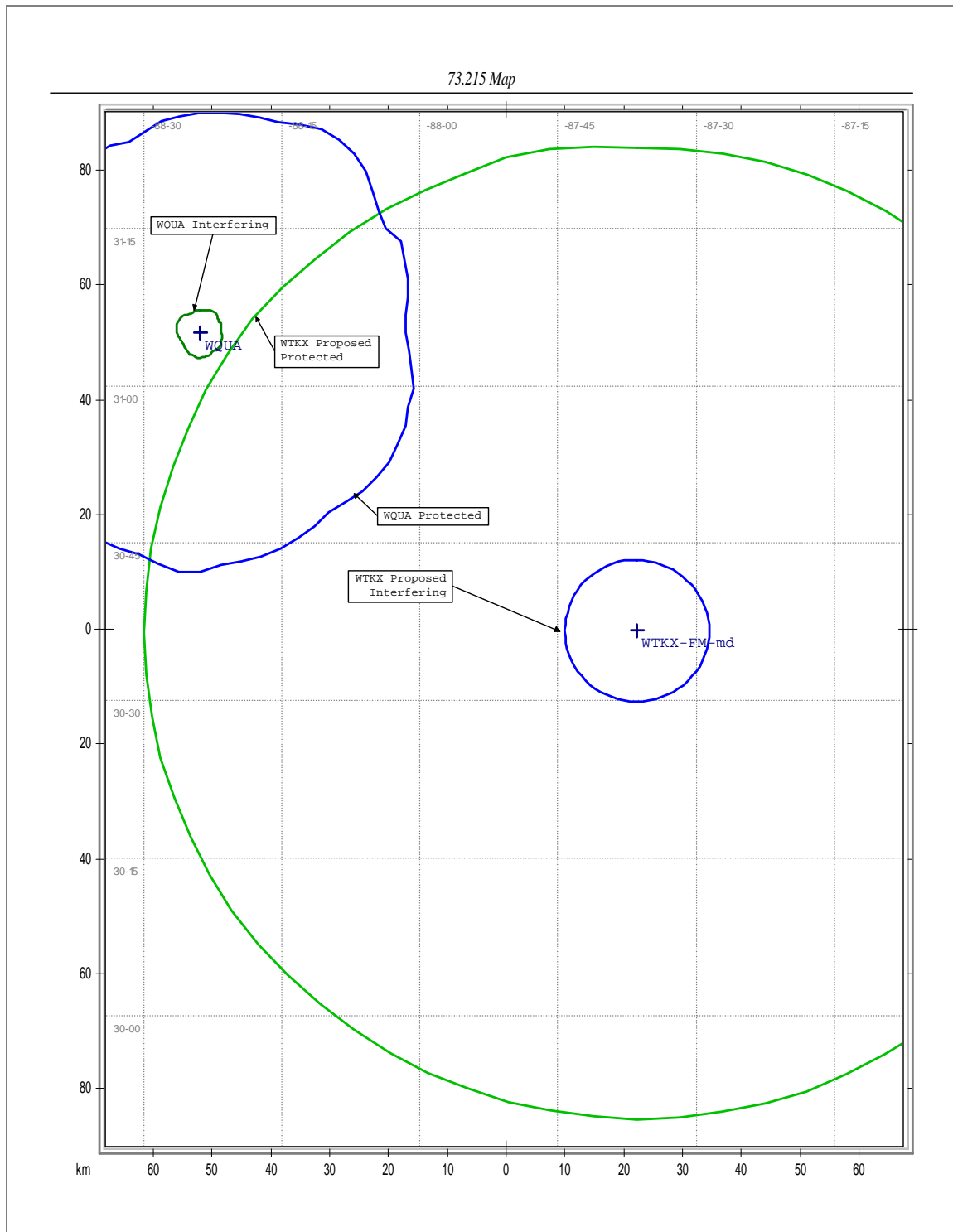
Further, the applicant will see that signs are posted in the vicinity of the tower, warning of potential radio frequency hazards at the site. The applicant will cooperate with other users of the tower to reduce power of the facility, or discontinue operation, as necessary to limit human exposure to levels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

Figure 1

ComStudy 2.2 search of channel 268 (101.5 MHz Class C) at 30-36-40.0 N, 87-36-27.0 W.

Callsign	State	City	Freq	ERP_w	Class	Status	Dist_km	Sep	Clr	Comments
WQUA	AL	CITRONELLE	102.1	15000	C3	LIC	92	96	-4	
WZHL	MS	NEW AUGUSTA	101.7	5000	A	CP	164.85	165	-0.2	*073.215*
WTID	AL	REPTON	101.1	6000	A	CP	94.62	95	-0.4	*073.215*
NEW	MS	NEW AUGUSTA	101.7	0	A	APP	166.17	165	1.2	
WTID	AL	REPTON	101.1	3100	A	LIC	97.59	95	2.6	
WMSO	MS	MERIDIAN	101.3	100000	C1	LIC	214.93	209	5.9	
WTOT-FM	FL	GRACEVILLE	101.7	25000	C3	CP	187.12	176	11.1	
NEW	AL	ROBERTSDALE	101.9	38	D	APP	16.13	0	16.1	
W214BN	AL	MALBIS	90.7	13	D	LIC	22.59	0	22.6	
WWAV	FL	SANTA ROSA BEACH	102.1	50000	C2	LIC	128.29	105	23.3	*073.215*
W266AL	AL	BAY MINETTE	101.1	19	D	CP	29.41	0	29.4	
W214BN	AL	MALBIS	90.9	19	D	CP	29.43	0	29.4	
NEW	AL	FAIRHOPE	101.1	19	D	APP	31.12	0	31.1	

Figure 2



Antenna Mfg.: Shively Labs

Antenna Type: 6014-12/3

Station: WTKX

Frequency: 101.5

Channel #: 268

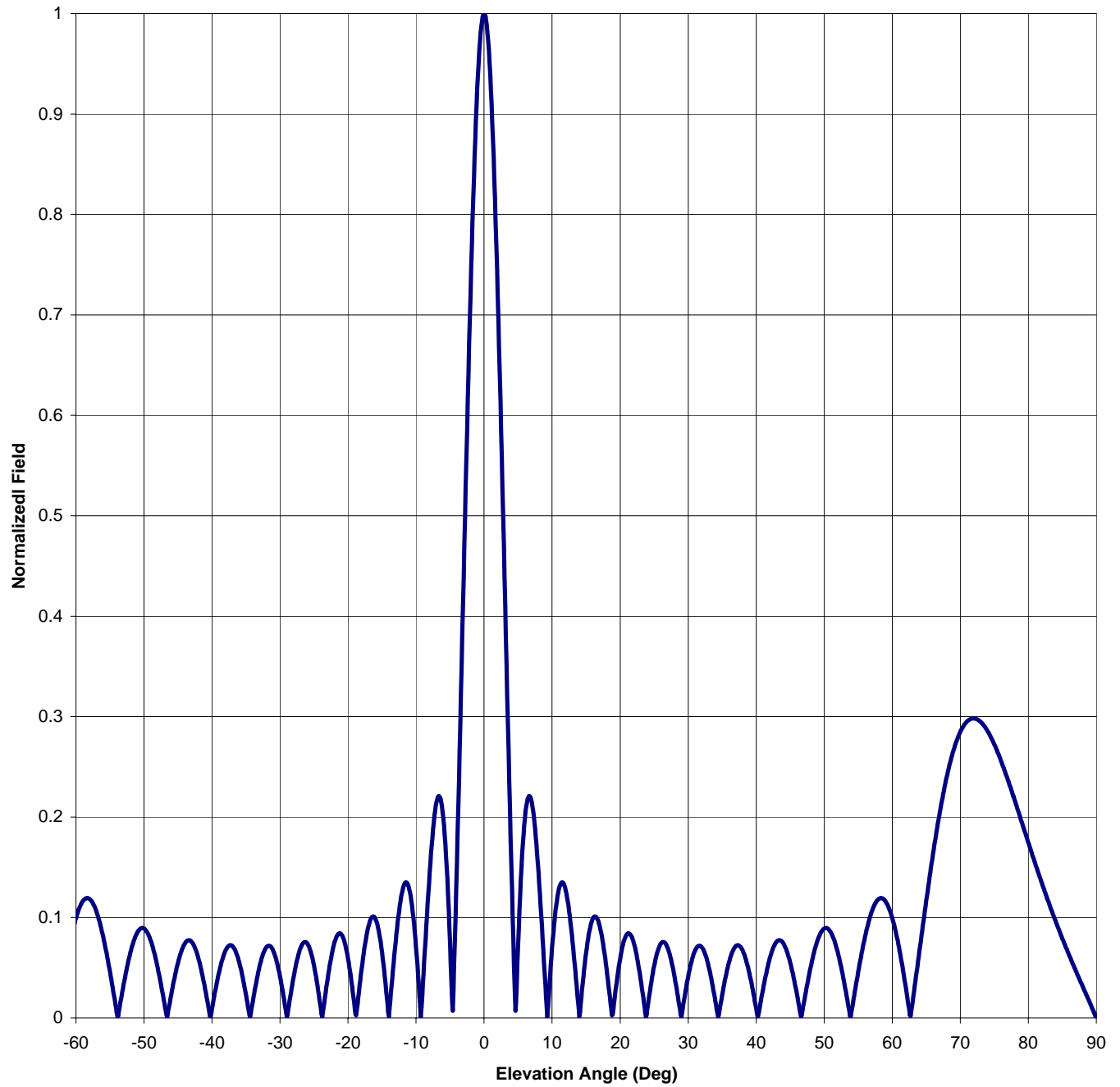
Figure: 3

Date: 8/10/2005

Beam Tilt 0

Gain (Max) 6.625 8.212 dB

Gain (Horizon) 6.625 8.212 dB



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Figure: 3

Angle of Depression (Deg)	Relative Field	Angle of Depression (Deg)	Relative Field	Angle of Depression (Deg)	Relative Field	Angle of Depression (Deg)	Relative Field
-90	0.000	-44	0.074	0	1.000	46	0.023
-89	0.016	-43	0.076	1	0.925	47	0.015
-88	0.031	-42	0.059	2	0.721	48	0.050
-87	0.047	-41	0.029	3	0.440	49	0.077
-86	0.063	-40	0.009	4	0.154	50	0.089
-85	0.079	-39	0.044	5	0.073	51	0.085
-84	0.097	-38	0.067	6	0.199	52	0.065
-83	0.115	-37	0.072	7	0.215	53	0.033
-82	0.134	-36	0.055	8	0.145	54	0.006
-81	0.154	-35	0.023	9	0.033	55	0.046
-80	0.175	-34	0.017	10	0.070	56	0.081
-79	0.196	-33	0.052	11	0.128	57	0.106
-78	0.217	-32	0.071	12	0.127	58	0.118
-77	0.237	-31	0.067	13	0.076	59	0.116
-76	0.256	-30	0.041	14	0.002	60	0.100
-75	0.273	-29	0.001	15	0.065	61	0.070
-74	0.286	-28	0.041	16	0.099	62	0.030
-73	0.295	-27	0.070	17	0.091	63	0.017
-72	0.298	-26	0.074	18	0.049	64	0.067
-71	0.295	-25	0.052	19	0.009	65	0.116
-70	0.285	-24	0.009	20	0.059	66	0.163
-69	0.266	-23	0.039	21	0.083	67	0.205
-68	0.240	-22	0.075	22	0.075	68	0.240
-67	0.205	-21	0.083	23	0.039	69	0.266
-66	0.163	-20	0.059	24	0.009	70	0.285
-65	0.116	-19	0.009	25	0.052	71	0.295
-64	0.067	-18	0.049	26	0.074	72	0.298
-63	0.017	-17	0.091	27	0.070	73	0.295
-62	0.030	-16	0.099	28	0.041	74	0.286
-61	0.070	-15	0.065	29	0.001	75	0.273
-60	0.100	-14	0.002	30	0.041	76	0.256
-59	0.116	-13	0.076	31	0.067	77	0.237
-58	0.118	-12	0.127	32	0.071	78	0.217
-57	0.106	-11	0.128	33	0.052	79	0.196
-56	0.081	-10	0.070	34	0.017	80	0.175
-55	0.046	-9	0.033	35	0.023	81	0.154
-54	0.006	-8	0.145	36	0.055	82	0.134
-53	0.033	-7	0.215	37	0.072	83	0.115
-52	0.065	-6	0.199	38	0.067	84	0.097
-51	0.085	-5	0.073	39	0.044	85	0.079
-50	0.089	-4	0.154	40	0.009	86	0.063
-49	0.077	-3	0.440	41	0.029	87	0.047
-48	0.050	-2	0.721	42	0.059	88	0.031
-47	0.015	-1	0.925	43	0.076	89	0.016
-46	0.023	0	1.000	44	0.074	90	0.000
-45	0.055			45	0.055		