

Technical Exhibit

AUGUSTA RADIO FELOWSHIP INSTITUTE, INC.
Technical Exhibits in Support of
MINOR CHANGE TO LICENSED FACILITY

WTHP

CHANNEL 232 C3
6.3 kW ERP
174 meters HAAT (FCC/NGDC 30 Second Terrain)
310 meters COR AMSL
148 meters COR AGL

ASR# 1248538

33 17 5 N x 82 35 45 W (NAD 27)
GIBSON, GA

November 21, 2010

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AUGUSTA RADIO FELLOWSHIP INSTITUTE, INC.
Technical Exhibits in Support of
MINOR CHANGE TO LICENSED FACILITY APPLICATION for WTHP

WTHP CH232C3 – 94.3 MHz – 6.3 kW 174 M HAAT – GIBSON, GA

This Exhibit is in support of the Minor Change To Licensed Facility Application for WTHP by AUGUSTA RADIO FELLOWSHIP INSTITUTE, INC. (herein “Applicant”). Specifically, this application proposes increased ERP and change of Class.

Interference Compliance

Required spacing with respect to facilities operating on co-channel, 1st adjacent channel, 2nd adjacent channel, and 3rd adjacent channel and I.F. frequencies is fully compliant with C.F.R. Section 73.207 of the Commission’s Rules (Table 1.1) with the exceptions of WBYZ and Construction Permit BNPH-20091001AKY in Crawfordville, GA. Applicant proposes 73.215 contour protections of WBYZ and the Crawfordville, GA Construction Permit.

Environmental Protection Act / RF Radiation Compliance (Table 2)

The Rules require that an addition to any multiple use site must not contribute non-ionizing RF Radiation in excess of the total limits for each class of service in either of the two selected environments.

In the case of FM, this limit is 1,000 microwatts for the controlled, or worker environment, or 200 microwatts for the uncontrolled, or public, environment per square centimeter at 2 meters above ground level.

WTHP proposes to use a 6-bay NICOM BKG 88/6 antenna.

The attached Radiofrequency Electromagnetic Exposure Analysis (Table 2) specifically lists all potential sources of radiation and estimates the power density expected to occur at a distance of 10 meters from the base of the tower, the maximum power density expected from each source, the maximum distance from the base of the tower to the point of maximum power density for each source, and the total worst case (sum of all maximum power densities, from all sources, at the most distant maximum occurring power density). The power density values are in units of microwatts per square meter at a height of 2 meters above ground level. These levels are also expressed relative to the maximum allowable limit of each of the two environments (see Table 2).

Considering all existing and proposed sources, the total contribution of all potential sources of radiation within 10 meters from the base of the tower (controlled environment) is 10.3 microwatts per square centimeter at 2 meters above ground level which is 1.0% of the ANSI limit for the controlled environment.

For the uncontrolled environment, the sum of all individual source maximum power densities is 11 microwatts per square centimeter at 2 meters above ground level. The maximum power density value extends no farther than 26 meters from the base of the tower. This represents a “worst case” power density level which is only 5.7% of the ANSI limit for the uncontrolled environment.

Given that access within 10 meters to the site is restricted by a locked fence, and given that no more than 11 microwatts per square centimeter at 2 meters above ground level (50% of the ANSI limit) is predicted to occur at any point beyond 26 meters from the base of the tower, the total radiation contributed by WTHP would be less than the ANSI limit for all points in both the controlled and the uncontrolled environments. Therefore, this proposal is fully compliant with the provisions of OET Bulletin #65 as recently amended.

The contribution of WTHP was calculated using FCC FM Model v2.10 Beta assuming the “worst case” EPA dipole model. Further to the requirements and intentions of the FCC, appropriate signs are currently posted at entrances to the property, on the walls and doors of buildings containing transmitters, and on fences warning the public and workers of the potential hazard.

Applicant will require that the power to the antenna be reduced as necessary to accommodate workers or will discontinue operation, if necessary, for this purpose.

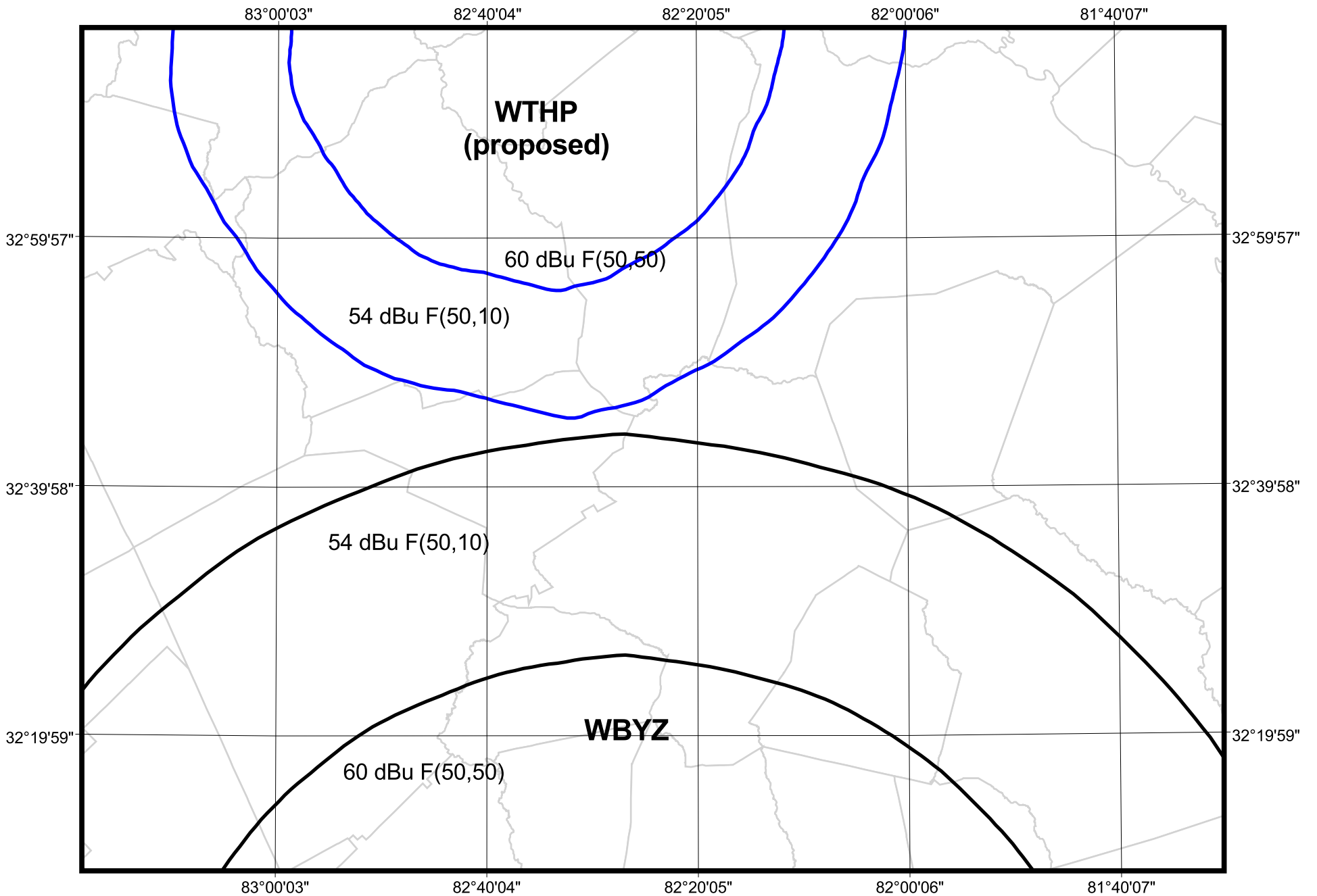


Figure 1

**WTHP, GIBSON, GA: MINOR CHANGE TO LICENSED FACILITY
1st Adjacent Channel Study to WBYZ per Sec. 73.215(a)**

Radio Data Services

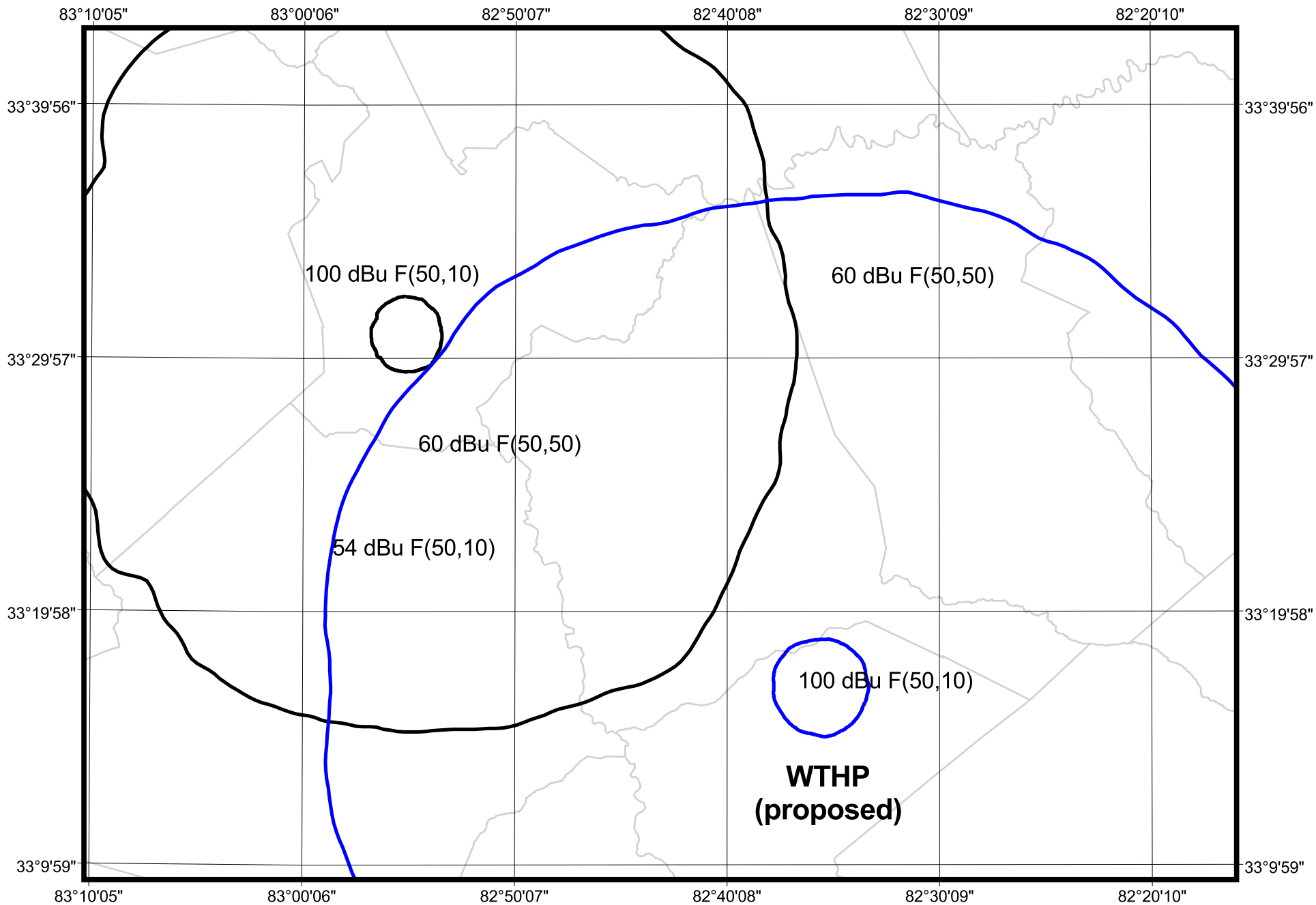
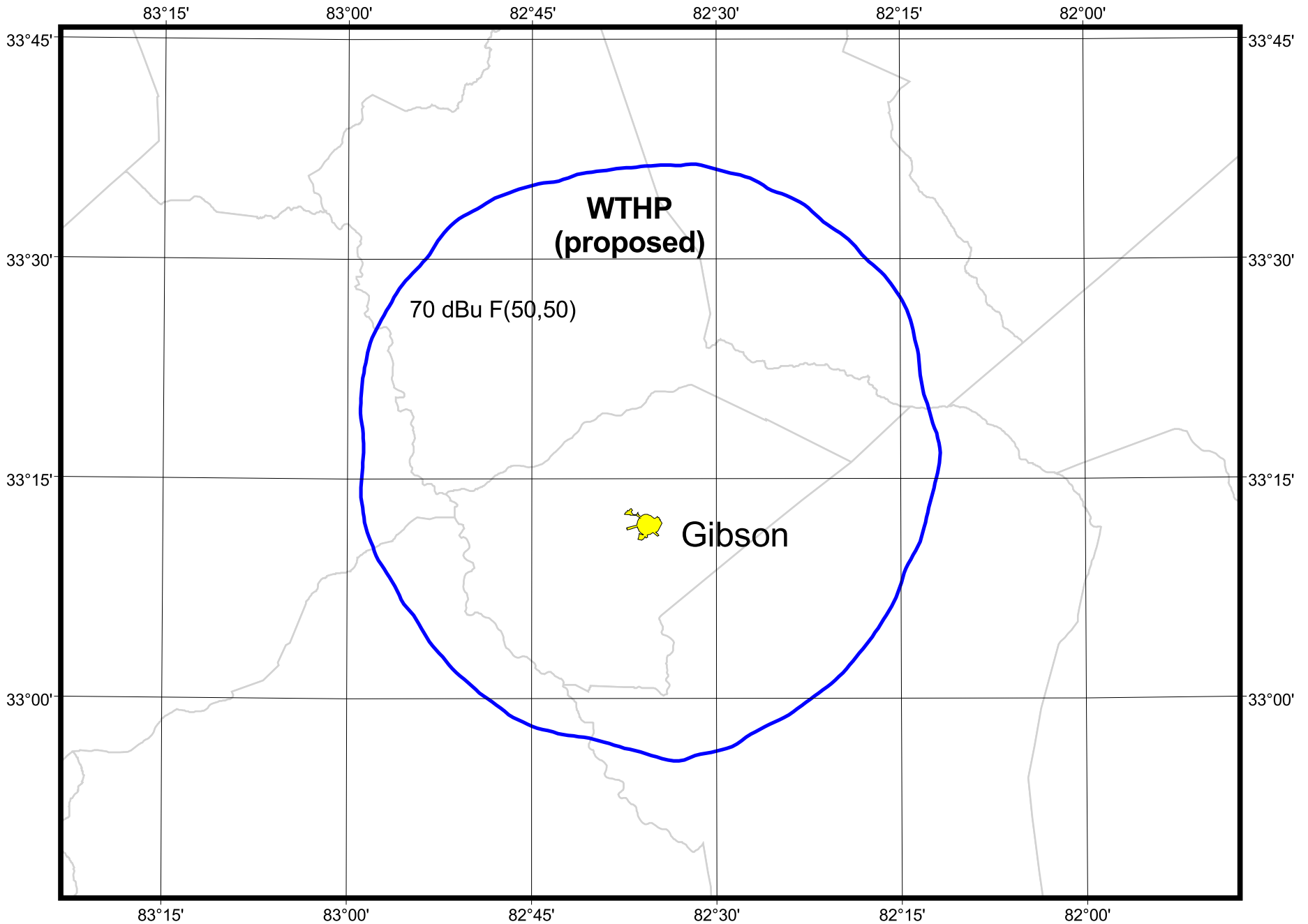


Figure 2

**WTHP, GIBSON, GA: MINOR CHANGE TO LICENSED FACILITY
 2nd Adjacent Channel Study to (CP) BNPH-20091001AKY per Sec. 73.215(a)**

Radio Data Services



0 50 Kilometers

Figure 3

WTHP, GIBSON, GA: MINOR CHANGE TO LICENSED FACILITY
Community Coverage: Gibson, GA

Radio Data Services

Table 1.1

**WTHP Minor Change To Licensed Facility
Channel Study with respect to 73.207 minimum distance separations**

Chan	Class	Call Letters	Type	Status	City	State	Country	Owner	Distance (km)	Bearing TO (deg)	Req. Dist. (km)	Clearance (km)	Rule
229	C1	WPEZ	FM	LIC	JEFFERSONVILLE	GA	US	CUMULUS LICENSING LLC	107.9	237.0	76	32	73.207
230	C3	WDRR	FM	LIC	MARTINEZ	GA	US	WGOR LICENSE, LLC	50.2	70.0	43	7	73.207
231	A	WGFJ	FM	CP	CROSS HILL	SC	US	RADIO TRAINING NETWORK, INC	120.2	31.6	89	31	73.207
231	A	WGFJ	FM	LIC	CROSS HILL	SC	US	RADIO TRAINING NETWORK, INC	120.2	31.6	89	31	73.207
231	C0	WSTR	FM	LIC	SMYRNA	GA	US	LINCOLN FINANCIAL MEDIA COM	169.9	288.6	163	7	73.207
231	C0		FA	RSV	SMYRNA	GA	US		170.0	288.6	163	7	73.207
231	C0	WQBT	FM	LIC	SAVANNAH	GA	US	CAPSTAR TX LLC	180.9	139.2	163	18	73.207
232	A	WTHP	FM	LIC	GIBSON	GA	US	AUGUSTA RADIO FELOWSHIP II	0.0	0.0	142	-142	73.207 (applicant)
232	A	WWNQ	FM	LIC	FOREST ACRES	SC	US	DOUBLE O SOUTH CAROLINA C	165.2	60.7	142	23	73.207
232	A	WLEL	FM	LIC	ELLAVILLE	GA	US	GARY S. HESS	191.2	233.6	142	49	73.207
233	C	WBYZ	FM	LIC	BAXLEY	GA	US	SOUTH GEORGIA BROADCASTI	166.9	175.3	176	-9	73.207 (Req. 73.215)
233	C	WMUU-FM	FM	LIC	GREENVILLE	SC	US	WMUU, INC.	184.6	5.2	176	9	73.207
234	A	NEW	FM	CP	CRAWFORDVILLE	GA	US	DAVIS BROADCASTING, INC. OF	39.6	310.3	42	-2	73.207 (Req. 73.215)
234	A		FA	VAC	CRAWFORDVILLE	GA	US		42.0	309.0	42	0	73.207
234	A	WAAW	FM	LIC	WILLISTON	SC	US	WISDOM, LLC	93.8	74.3	42	52	73.207
235	C3	WHKN	FM	LIC	MILLEN	GA	US	GEORGIA EAGLE MEDIA, INC.	91.9	131.7	43	49	73.207

Table 1.2**WTHP Minor Change To Licensed Facility
Channel Study with respect to 73.215(a) contour protection**

Chan	Class	Call Letters	Type	Status	City	State	Country	Owner	Distance (km)	Bearing TO (deg)	Req. Dist. (km)	Clearance (km)
233	C	WBYZ	FM	LIC	BAXLEY	GA	US	SOUTH GEORGIA BROADCASTI	167.3	175.3	145.1	22.2
234	A	NEW	FM	CP	CRAWFORDVILLE	GA	US	DAVIS BROADCASTING, INC. OF	39.6	310.3	39.5	0.1

Table 1.3**WTHP Minor Change To Licensed Facility
Channel Study with respect to 73.215(e) contour protection**

Chan	Class	Call Letters	Type	Status	City	State	Country	Owner	Distance (km)	Bearing TO (deg)	Req. Dist. (km)	Clearance (km)
233	C	WBYZ	FM	LIC	BAXLEY	GA	US	SOUTH GEORGIA BROADCASTI	166.9	175	165	2
234	A	NEW	FM	CP	CRAWFORDVILLE	GA	US	DAVIS BROADCASTING, INC. OF	39.6	310	36	4

Radiofrequency Electromagnetic Exposure Analysis for WTHP

Source	Height AGL(m)	Antenna type	Bays	Horizontal ERP (kw)	Vertical ERP (kw)	Power Density $\mu\text{W}/\text{cm}^2$ at 2 meters AGL					
						at 10 meters distance	% controlled environment limit (1000 $\mu\text{W}/\text{cm}^2$)	Max. PD	% uncontrolled environment limit (200 $\mu\text{W}/\text{cm}^2$)	Distance to maximum PD (m)	
WTHP	148	NICOM BKG 88/6	6	6.3	6.3	10.3	1.0%	11	5.7%	26	(proposed)
						10.3	1.0%	11	5.7%	26	

The proposed facility is excluded from environmental processing under 47. C.F.R. Section 1.1306 (i.e., The facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments).

In the absence of specific antenna information EPA dipole model assumed (worst case)
 Calculations made using FCC FM Model v2.10 Beta