

TECHNICAL EXHIBIT
APPLICATION FOR MODIFICATION OF
FM CONSTRUCTION PERMIT
RADIO STATION WIOF(FM)
WAVERLY HALL, GEORGIA

FEBRUARY 23, 2010

CH 239A 6 KW 70 M

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RADIO STATION WJOL(FM)
WAVERLY HALL, GEORGIA
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Technical Narrative

The technical exhibit of which this narrative is part was prepared to support an application to modify the construction permit of radio station WIOF(FM) now assigned to Waverly Hall, Georgia. It is herein proposed to relocate to the WIOF(FM) Waverly Hall facility to an existing antenna supporting structure (tower).

The proposal would not be subject to environmental processing in accordance with Section 1.1306. It is believed that this proposal conforms with all applicable rules and regulations of the FCC.

Allocation Considerations

Sheet 1 of Figure 3 is an allocation study for channel 239A at Waverly Hall, Georgia. As can be seen from the tabulation, there are two stations that fail the minimum separation distances from the proposed facility: WRLD-FM on Channel 237C3 at Valley, Alabama and the proposed WBTS(FM) on Channel 239C1 at Doraville, Georgia. Section 73.215 processing is requested towards both stations as shown by the allocation map provided in Sheet 2 of Figure 3.

It is noted there is a short-spacing to a second-adjacent channel LPFM station, WBUE-LP on Channel 241 at Columbus, Georgia.¹ Even though WIOF(FM) is not required to provide allocation protection to WBUE-LP pursuant to Section 73.809 of the Commission's Rules, WIOF(FM) agrees not to displace WBUE-LP and therefore permit WBUE-LP to operate on a second channel waiver basis to the herein proposed WIOF(FM).

Furthermore, it is observed the distance separation between WIOF(FM) and WBUE-LP is actually increasing by this herein modification. The separation distance between WBUE-LP and the presently authorized WIOF(FM) is 25.6 kilometers; the separation distance between WBUE-LP and the herein proposed WIOF(FM) is 28.0 kilometers. Therefore, this proposed facility improves the separation distance by 2.4 kilometers to WBUE-LP.

Groundlevel Radiofrequency Electromagnetic Considerations

The proposed facility has been evaluated in terms of potential radiofrequency electromagnetic field exposure at ground level in accordance with OET Bulletin No. 65, *Evaluating Compliance with FCC Specified Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields*.² The power density at the base of the tower was calculated using the appropriate procedure contained in Section 2, Supplement A, *Additional Information for Radio and Television Broadcast Stations*, of the Bulletin.

¹ See FCC File Number: BLL-20050331BEM.

² OET Bulletin 65, Second Edition 97-01, August, 1997.

The proposed antenna will be mounted 55 meters above ground level. Assuming 12 kW of power (6 kW horizontal/6 kW vertical) radiated in a downward direction (a "worst-case" pattern relative field in the downward direction of 1), the "worst-case" calculated RFR power density from Equation 8 on page 22 of OET Bulletin 65 (Edition 97-01, August 1997) at 2 meters above ground level at the tower base is 0.13 mW/cm² or 66% of the FCC limit for uncontrolled environments.

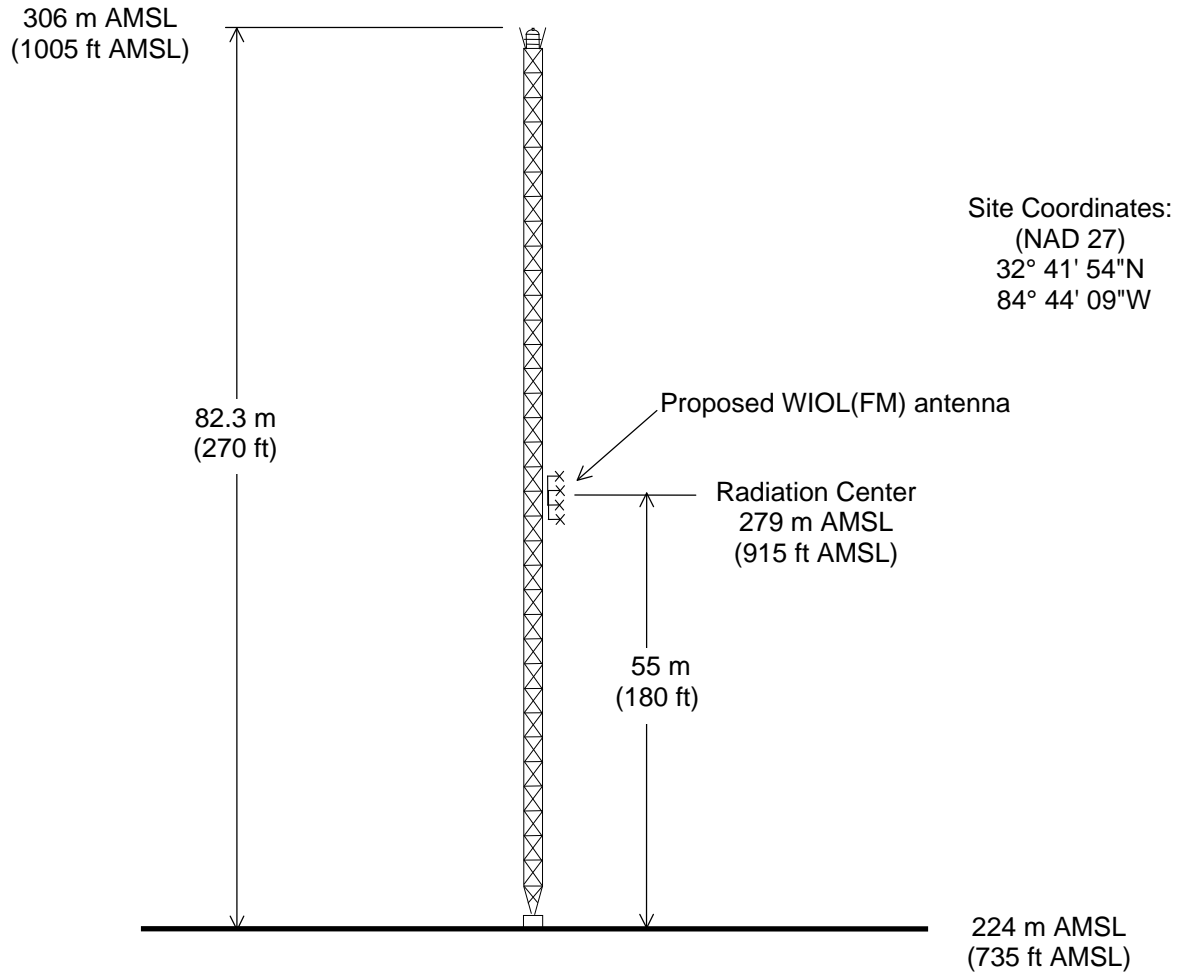
The only environmental certification that this Technical Exhibit addresses is with respect to human exposure to radiofrequency radiation. Certifications with respect to all other aspects of environmental compliance are the responsibility of the applicant and tower owner.

Charles A. Cooper

February 23, 2010

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201 Fletcher Avenue
Sarasota, Florida 34237
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ASRN: 1248945



Not to Scale

ANTENNA AND SUPPORTING STRUCTURE

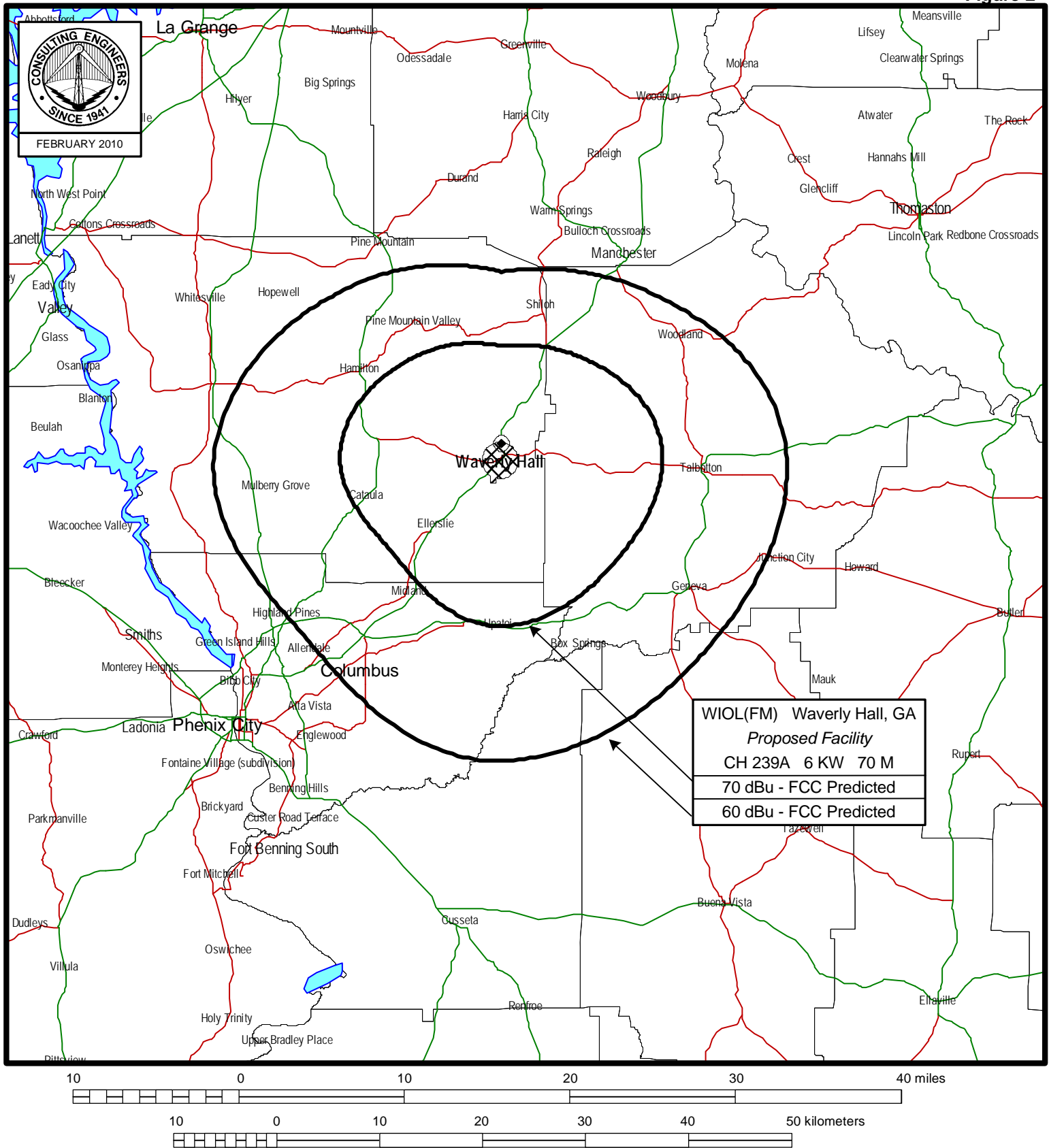
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du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 2



PREDICTED COVERAGE CONTOURS

RADIO STATION WIOL(FM)

WAVERLY HALL, GEORGIA

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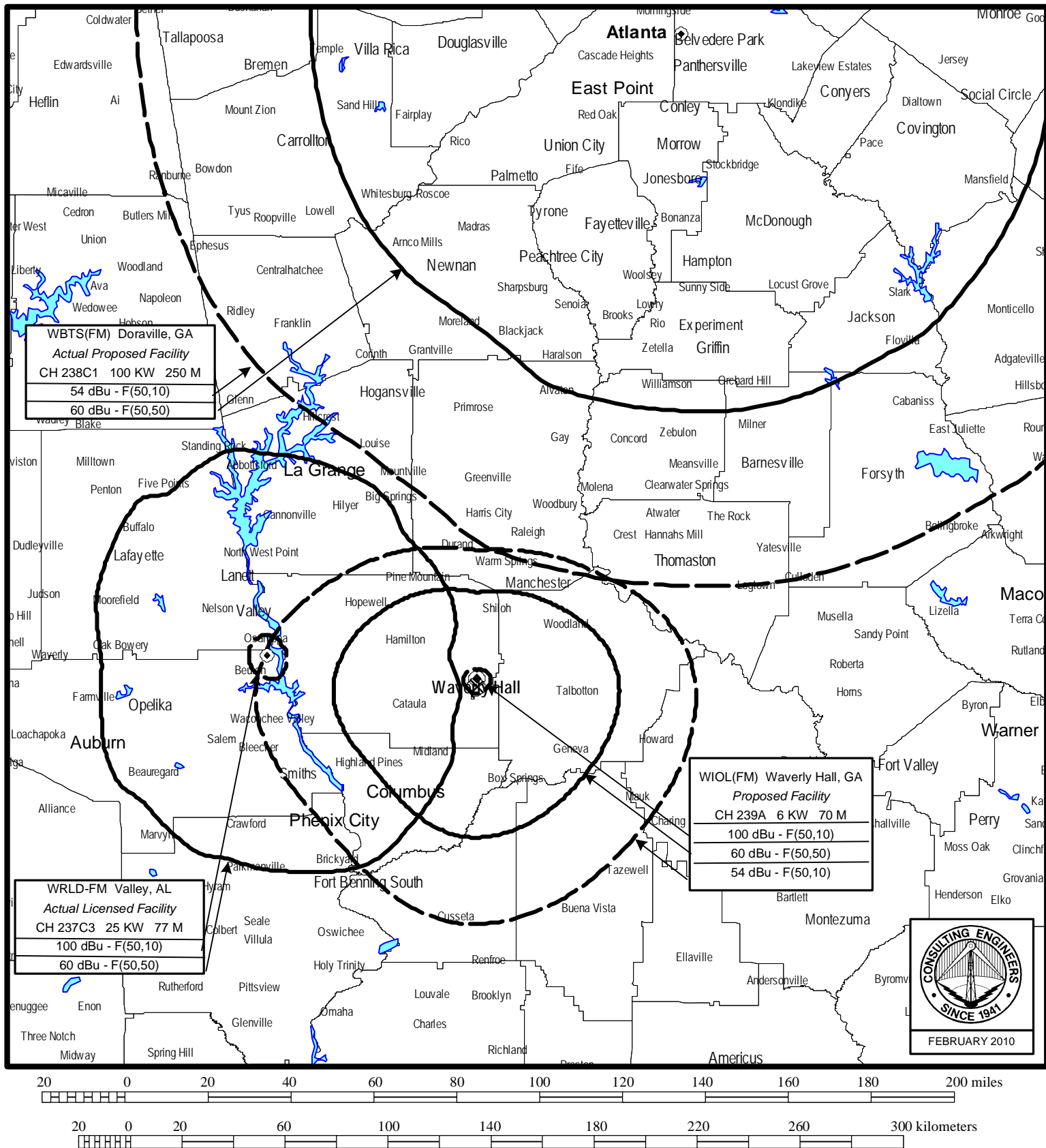
du Treil, Lundin & Rackley, Inc Sarasota, Florida

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Channel 239A Allocation Study

32° 41' 54" North Latitude
084° 44' 09" West Longitude

Callsign	Status	Chan.	Serv.	Freq.	City		State	Latitude	Dist.(km)	Sep.(km)	Spacing(km)	
Fac. ID	ARN			Class	DA	Ant. ID	ERP(kW)	HAAT(m)	Longitude	Bear.(deg)	73.215	Comment
WRLD-FM	LIC	237	FM	95.3	VALLEY			AL	032-44-07	38.92	42	-3.08
52040	BLH	20080502ABD		C3	N		25	77	085-08-55	276.18	36 Y	SHORT
(Section 73.215 processing toward WRLD-FM on Channel 237C3 at Valley, Alabama).												
WBTS	APP	238	FM	95.5	DORAVILLE			GA	033-45-33	123.45	133	-9.55
11710	BPH	20060501AOE		C1	D	83869	100	250	084-20-05	17.44	111 Y	SHORT
(Section 73.215 processing toward the proposed WBTS(FM) on Channel 238C1 at Doraville, Georgia).												
WTVY-FM	LIC	238	FM	95.5	DOTHAN			AL	031-15-16	167.62	152	15.62
73639	BLH	19880323KD		C0			100	323	085-15-39	197.28	130 N	CLEAR
WJOL	LIC	239	FM	95.7	GREENVILLE			GA	032-50-48	16.98	142	-125.02
50534	BLH	19950303KB		C3	N		3.4	267	084-41-27	14.3	119 N	SHORT
(Applicant's existing licensed facility.)												
WJOL	CP	239	FM	95.7	WAVERLY HALL			GA	032-35-23	12.62	115	-102.38
50534	BPH	20060501ANO		A	N		2.8	148	084-41-44	162.65	92 N	SHORT
(Applicant's authorized facility.)												
WTGZ	LIC	240	FM	95.9	TUSKEGEE			AL	032-28-17	82.66	72	10.66
48682	BLH	19920803KD		A	N		4.3	115	085-34-28	252.42	49 N	CLEAR
WBUE-LP	LIC	241	FL	96.1	COLUMBUS			GA	032-31-52	27.95	29	-1.05
124445	BLL	20050331BEM		L1	N		0.085	32.42	084-57-31	228.35		SHORT
(Informational spacing to LPFM facility.)												
WRNK-LP	LIC	242	FL	96.3	LANETT			AL	032-52-26	46.98	29	17.98
133833	BLL	20040512AET		L1	N		0.1	4	085-11-32	294.71		CLEAR



PROPOSED SITE ALLOCATION STUDY

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du Treil, Lundin & Rackley, Inc Sarasota, Florida