

TECHNICAL EXHIBIT
APPLICATION FOR FM CONSTRUCTION PERMIT
RADIO STATION WFXE(FM)
COLUMBUS, GEORGIA

JULY 6, 2009

CH 285A 2.3 KW 164 M

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Technical Narrative

The technical exhibit of which this narrative is part was prepared in support of an application for radio station WFXE(FM) licensed to Columbus, Georgia to relocate its transmitter site.

Proposed Transmitter Location

A sketch showing the proposed antenna and supporting structure is shown on Figure 1. The tower is an existing structure that already has an Antenna Registration Number.

Interference Concerns

The 115 dBu predicted "blanketing" contour of the existing station would extend radially less than 1 kilometer from the transmitting site. No interference is expected. However, the applicant recognizes its responsibility to resolve complaints of interference, including blanketing and receiver-induced interference as required by Sections 73.315(b), 73.316(e) and 73.318.

Coverage Contours

The predicted coverage contours for the proposed operation were calculated in accordance with the provisions of Section 73.313. In accordance with current FCC practice, the distances to the contours were calculated without consideration given to terrain roughness correction factors.

The average terrain elevations from 3 to 16 kilometers along eight radials evenly spaced at 45-degree intervals were obtained from a N.G.D.C. 30-second terrain database. The terrain elevations were then used in combination with the effective radiated power for determining the distances to coverage contours.

As can be calculated using the map shown in Figure 2, the FCC predicted 70 dBu coverage contour encompasses 162,128 persons within the Columbus city limits, or 87% of its entire city population. Therefore, as the value is greater than 85%, the proposed facility satisfies the Commission's city coverage requirement.

Allocation Study

Figure 3 is an allocation study for channel 262A at the proposed site. The figure contains a tabulation of actual and required separation distances from other pertinent stations and allotments. The proposed site meets the FCC's minimum separation requirements, specified in Section 73.207(b) of the Commission's Rules, to all assignments and stations.

Radiofrequency Electromagnetic Field Exposure Analysis

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. 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.

For the calculation, a combined horizontal and vertical polarized ERP of 4.6 kilowatts is employed with a radiation center of 84 meters above ground level. A "worst-case" downward relative field value of 1.0 was assumed. It is calculated that the power density will not exceed 0.03 mW/cm^2 at two meters above ground level. This is 15 percent of the Commission's guideline value for an uncontrolled environment for a FM radio station.

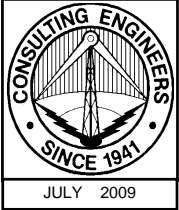
Access to the transmitting site will be restricted and appropriately marked with warning signs. When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction or shut down of power if necessary, shall be taken to ensure that the human exposure to radiofrequency radiation will not exceed the FCC guidelines.

It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already have been provided to the FCC by the tower owner as part of the tower registration process.

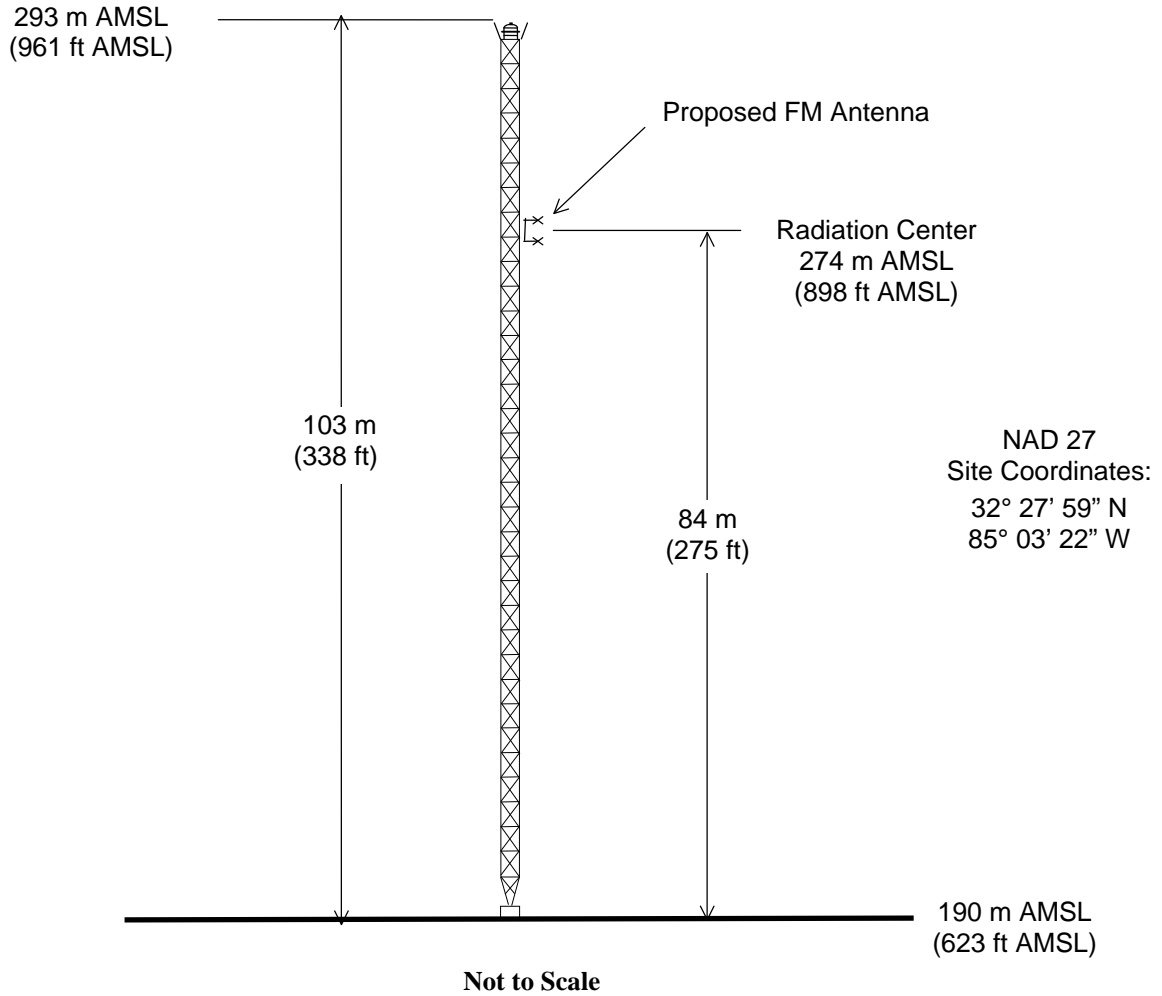
Charles A. Cooper

du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
Sarasota, Florida 34237
941.329.6000

July 6, 2009



ASRN: 1255743



ANTENNA AND SUPPORTING STRUCTURE

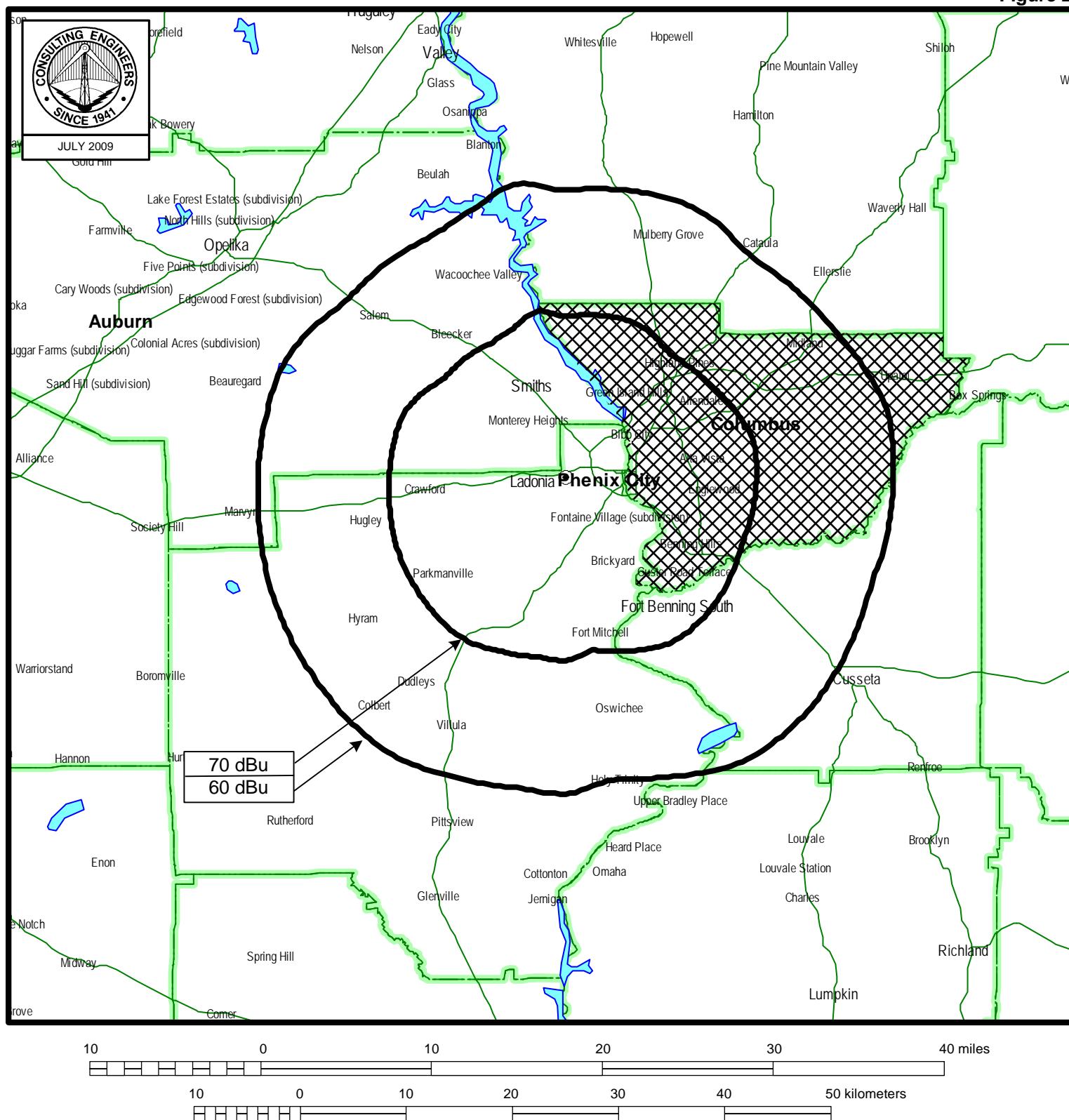
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du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 2



FCC PREDICTED COVERAGE CONTOURS

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Proposed Transmitter Site Allocation Study

32° 27' 59" North Latitude
85° 03' 22" 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
WAUF-LP	LIC	283	FL	104.5	AUBURN				AL	032-37-36	39.31	29	10.31
133684	BLL	20080317ADL		L1	N			0.066	37	85-25-46	297.09		
WFXE	LIC	285	FM	104.9	COLUMBUS				GA	032-27-37	4.54	115	
15847	BMLH	19900409KJ		A	N			6	88	085-00-30	98.61	92 N	
<i>(Applicant's existing facility.)</i>													
WMCB	LIC	285	FM	104.9	MILAN				GA	032-07-16	172.72	166	6.72
64757	BLH	19940310KB		C2	N			36	172	083-16-05	102.39	143 N	
WOAB	LIC	285	FM	104.9	OZARK				AL	031-27-19	126.8	115	11.8
51095	BMLH	19990525KA		A	N			6	82	085-40-58	207.9	92 N	
WBZY	LIC	287	FM	105.3	BOWDON				GA	033-24-41	106.91	75	31.91
63406	BLH	20020220AAB		C1	N			61	367	084-49-48	11.29	69 Y	