

TECHNICAL EXHIBIT
MINOR CHANGE APPLICATION
FM STATION WLCN (FACILITY ID 82090)
ATLANTA, ILLINOIS

JULY 10, 2007

CH 242A 6 KW 81 M

TECHNICAL EXHIBIT
MINOR CHANGE APPLICATION
FM STATION WLCN (FACILITY ID 82090)
ATLANTA, ILLINOIS
CH 242A 6 KW 81 M

Table of Contents

Technical Narrative

Figure 1 Predicted FCC Coverage Contours

Figure 2 Allocation Study

TECHNICAL EXHIBIT
MINOR CHANGE APPLICATION
FM STATION WLCN (FACILITY ID 82090)
ATLANTA, ILLINOIS
CH 242A 6 KW 81 M

Technical Narrative

This Technical Exhibit supports a minor change application to the licensed facility for FM broadcast station WLCN at Atlanta, Illinois. WLCN is currently licensed to operate on channel 242A with a non-directional antenna effective radiated power (ERP) of 5.4 kW and an antenna height above average terrain (HAAT) of 81 meters (BLH-20010413AAR).

Proposed Facilities

This minor change application proposes only to increase the non-directional ERP. WLCN will remain operating under the provisions of Section 73.215. The site coordinates remain: 40-14-39 N, 89-15-51 W (NAD27). It is proposed to operate with a non-directional antenna ERP of 6 kW and antenna HAAT of 81 meters. The existing tower is identified by FCC registration number 1221029.

Proposed Coverage Analysis

Figure 1 is a map showing the predicted FCC coverage contours for the proposed operation. The FCC predicted 70 dBu coverage contour will encompass the entire Atlanta city limits, as derived from 2000 U.S. Census data for Illinois.

Allocation Study

Sheet 1 of Figure 2 is an allocation study for channel 242A from the current site coordinates. The allotment reference point meets the FCC's minimum separation requirements, specified in Section 73.207(b) of the Commission's Rules, to all assignments except with respect to stations WHOW-FM and WZPN(FM). There are no other allocation issues.

Continued processing pursuant to the short-spacing provisions of Section 73.215 is requested with respect to the above two stations. As both WHOW-FM and WZPN(FM) are also operating under Section 73.215, their protected and interfering contours have been generated using their actual facilities. Sheet 2 of Figure 2 is a map indicating that the proposed WLCN operation will protect both WHOW-FM and WZPN(FM) using contour overlap.

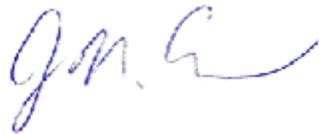
Radiofrequency Electromagnetic Field Exposure

The proposed FM facility was evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. Based on a worst-case downward relative field of 1.0 and the total ERP of 12 kW (6 kW horizontal polarization and 6 kW vertical polarization), the calculated power density at a point 2 meters above ground level will not exceed 0.07 mW/cm^2 , which is 35% of the FCC's recommended limit of 0.2 mW/cm^2 for FM channels, applicable to general population/uncontrolled exposure areas. Since there are no other known broadcast stations operating in the area, this value is in compliance with the general population/uncontrolled limit.

Access to the transmitting site will be restricted and appropriately marked with warning signs. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective

clothing and/or RFR exposure monitors or scheduling work when the station is at reduced power or shut down.

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.

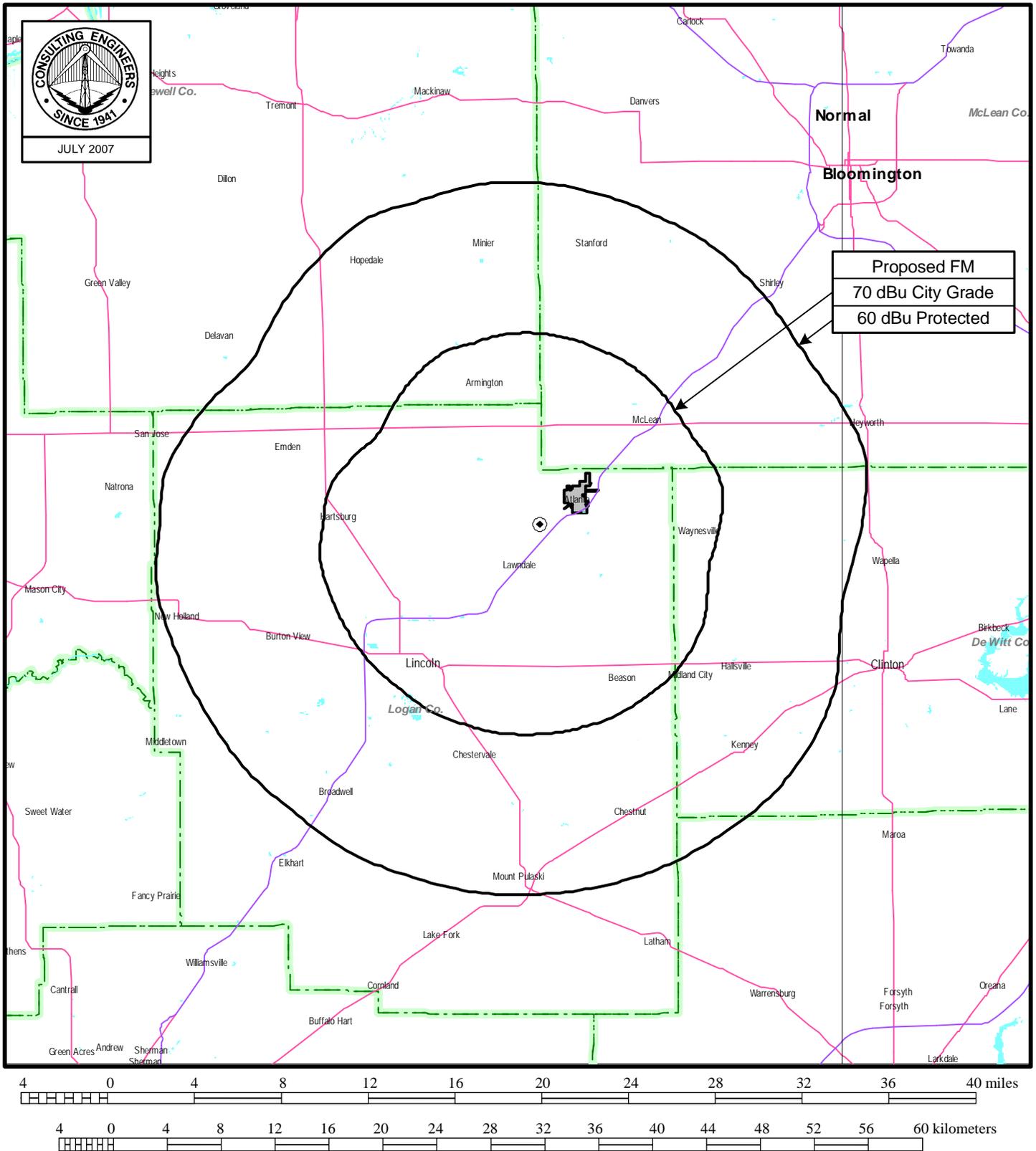


Jonathan N. Edwards

du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
Sarasota, Florida 34237
(941) 329-6000

July 10, 2007

Figure 1



PREDICTED COVERAGE CONTOURS

FM STATION WLCN
ATLANTA, ILLINOIS
CH 242A 6 KW 81 M

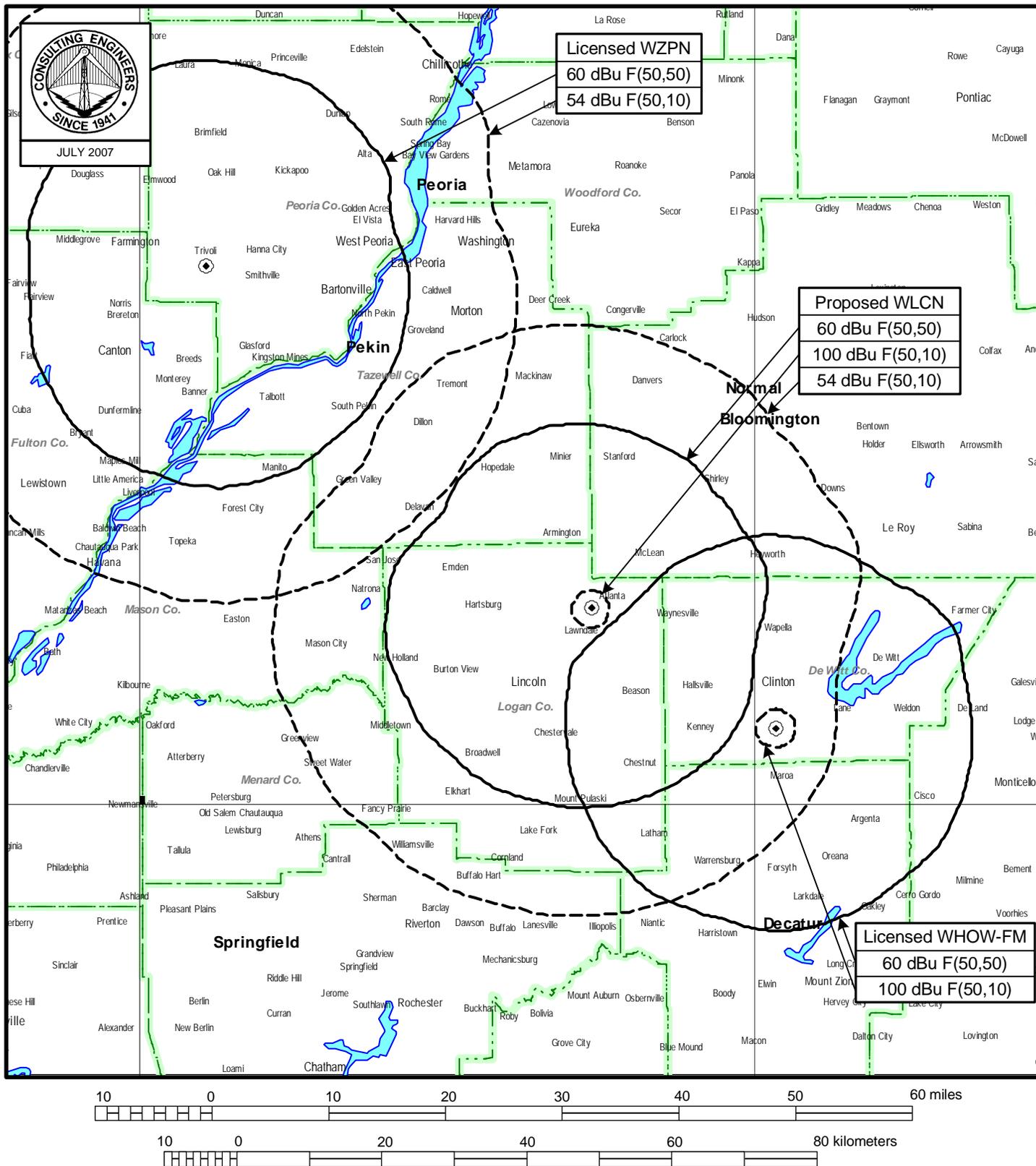
du Treil, Lundin & Rackley, Inc Sarasota, Florida

TECHNICAL EXHIBIT
MINOR CHANGE APPLICATION
FM STATION WLCN (FACILITY ID 82090)
ATLANTA, ILLINOIS
CH 242A 6 KW 81 M

CLASS A FM SEPARATION STUDY

Call Id	City St	File Status Num	Channel Freq	ERP HAAT	DA Id	Latitude Longitude	73 215	Bear	Dist. (km)	Req. (km) 215	207
WHOW-FM 13901	CLINTON IL LIC C	BLH 20061003ABL	240 A 95.9	6.000 94	N	40-05-43 088-57-51	Y	122.9	30.44 -0.56	25.0 Short ¹	31.0
WQQB 73229	RANTOUL IL LIC C	BLH 19930316KA	241 A 96.1	3.800 123	Y	40-13-27 088-17-56	Y	91.2	82.18 10.18	49.0 Close	72.0
WLCN 82090	ATLANTA IL LIC C	BLH 20010413AAR	242 A 96.3	5.400 81	N	40-14-39 089-15-51	Y	104.0	0.00		
		<i>applicant's existing facility</i>									
KIHT 27022	ST. LOUIS MO LIC C	BMLH 20061011ADI	242 C1 96.3	80.000 313	N	38-34-24 090-19-30	Y	206.5	206.78 6.78	178.0 Close	200.0
WZPN 76410	FARMINGTON IL LIC C	BLH 199711113KC	243 A 96.5	4.300 115	N	40-40-10 089-53-31	Y	311.9	71.17 -0.83	49.0 Short ¹	72.0
WIHN 4617	NORMAL IL LIC C	BLH 19920430KG	244 A 96.7	3.900 125	N	40-28-34 089-02-02	N	37.0	32.34 1.34	25.0 Close	31.0

¹ Contour protection provided. See Sheet 2 of Figure 2.



PREDICTED COVERAGE CONTOURS

FM STATION WLCN
ATLANTA, ILLINOIS
CH 242A 6 KW 81 M

du Treil, Lundin & Rackley, Inc Sarasota, Florida