

Comprehensive Engineering Exhibit
FCC Form 301 Minor Change Application
KLOU (FM) Facility ID No. 9626:
Citicasters Licenses L.P.
Saint Louis, Missouri
June 29, 2004

Citicasters Licenses L.P. seeks to relocate KLOU (FM) to a height of 325 meters upon a support structure identified by antenna structure registration number 1020785.

KLOU at the proposed location will be fully spaced utilizing Section 73.207 at a height above average terrain of 313 meters. As this is a height of 16 meters greater than that allowed for the C1 class of KLOU, a power reduction from 100 to 90 kilowatts is requested.

Figure 1 is a facsimile of a spacing study demonstrating full spacing. Figure 2 is a facsimile of the output of the Commissions FMpower web application used to calculate the allowable power at 315 meters.

It is proposed that KLOU share an already existing antenna. Below is a list of other users of this antenna:

Call Sign	Facility_id	Freq	Channel	ERP_w	ARN
KSIV-FM	4276	91.5	218	85000	BLED19960717KA
KEZK-FM	13507	102.5	273	100000	BLH19870316KB
KSHE	19523	94.7	234	100000	BLH19870504KB
KSLZ	48960	107.7	299	100000	BLH19871209KD
KFUO-FM	65924	99.1	256	100000	BLH19881115KB
KYKY	20358	98.1	251	90000	BLH19890112KA
WSSM	74577	106.5	293	90000	BLH19890509KC
KIHT	27022	96.3	242	80000	BLH19960605KE

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." Utilizing the micro-computer program "RFHAZ" by V-Soft Communications.

The proposed antenna system is a 8- bay, full-wave spaced, “cavity back “ CBR antenna manufactured by Harris Corporation, mounted with its center of radiation 325 meters above ground level, and will operate with an effective radiated power of 89.0 Kilowatts in both the horizontal and vertical planes from this proposal. Figure 1 below from the manufacturers’ website indicates maximum pertinent radiation toward the ground is 24 percent of maximum field. Thus at 2 meters above ground this proposal will contribute worst case, 3.24 microwatts per square centimeter, or 0.32 percent of the allowable ANSI limit for controlled exposure, and 1.62 percent of the allowable limit for uncontrolled exposure. It is therefore believed that this proposal is in compliance with OET Bulletin Number 65 as required by the Federal Communications Commission.

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 site itself is restricted from public access. 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.

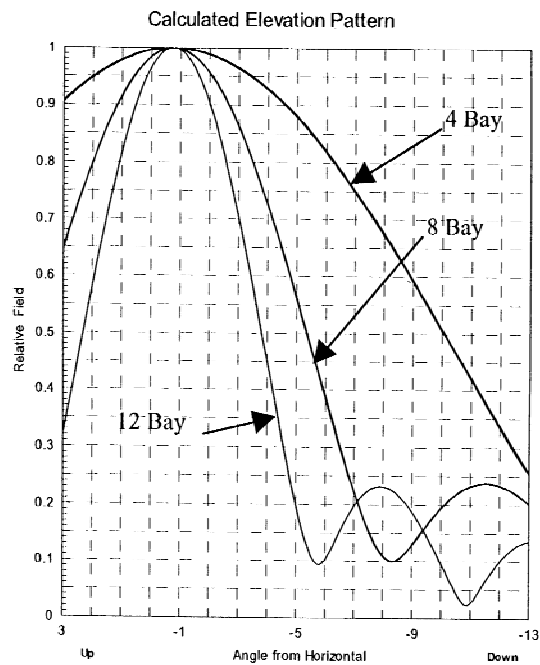


Figure 1

ComStudy 2.2 search of channel 277 (103.3 MHz Class C1) at 38-34-24.0 N, 90-19-30.0 W.								
Callsign	City	Chnl	ERP_w	Class	Status	Dist_km	Sep	Clr
KLOU	ST. LOUIS	277	32000	C1	LIC	5.33	245	-239.7
	LINN	276	0	A	APP	133.49	133	0.5
	LINN	276	0	A	APP	133.49	133	0.5
	LINN	276	0	A	APP	133.49	133	0.5
WXL	CHRISTOPHER	278	6000	A	LIC	139.19	133	6.2
WXL	CHRISTOPHER	278	0	A	USE	139.25	133	6.3
	ROLLA	276	0	A	APP	143.03	133	10
	ROLLA	276	0	A	APP	143.03	133	10
W277AQ	CANTON	277	0	A	APP	212.36	200	12.4
	EMINENCE	276	0	C3	APP	166.15	144	22.2
WIKK	NEWTON	278	0	B1	USE	193.72	161	32.7
KLUE	POPLAR BLUFF	278	50000	C2	LIC	191.58	158	33.6
WIKK	NEWTON	278	25000	B1	LIC	196.01	161	35
KLUE	POPLAR BLUFF	278	0	C2	USE	193.43	158	35.4

Figure 2

Class C1 facilities for Equivalency Determination:
Reference ERP = 100.000 kW
Reference HAAT = 299.0 meters
F(50,50) 60 dBu protected contour at 72.3 km distance

Equivalent ERP (rounded per 47 CFR 73.212) = **90.000 kW**

... at **313.0 meters HAAT**

Unrounded ERP = 90.081 kW for 313.0 meters HAAT

Class C1 stations are authorized in MO.

