City of La Crosse, Wisconsin

County/City Tower Co-Location Application Form

Application Notes

v 1.1 29May 19

Applicants wishing to lease tower space on a City of La Crosse tower should fill out the two-page application and submit with a $1500 application fee to:

Baycom Inc.
4009 Felland Rd Suite 116
Madison, WI 53718

telephone: 608-241-7700
email: djungers@baycominc.com
web: www.baycominc.com

Upon review of the initial application by Baycom Inc. and approval by City of La Crosse, the applicant, at their expense, shall complete a tower loading study to EIA/TIA 222 rev G, based on existing tower loading and proposed loading by the applicant. The EIA/TIA 222 rev G study shall use Category III classification, however some towers may use Category II (requires Baycom approval). The applicant may use the engineering firm of their choice for the loading study provided the loading study is stamped by a certified Wisconsin Professional Engineer.
The preferred supplier for loading studies is:

Ramaker & Associates, Inc.
Attn: Jason Frazier
1120 Dallas Street
Sauk City, WI 53583

telephone: 608-643-4100
email: jfrazier@ramaker.com
web: www.ramaker.com

The loading study, with existing loading and proposed tower loading, should be at no greater than 90% load. If greater than 90%, a structural report recommending structural improvements to meet 90% loading requirements should be produced. Any costs related to structural improvements to bring the tower to the required loading would be the responsibility of the applicant.

If the proposal from the applicant requires any modification or changes to the public safety radio system, RF multicoupler filtering or antenna systems, all work will be contracted to Baycom Inc. and costs will be the responsibility of the applicant.

The applicants installation shall include all site and tower diagrams, and documentation that grounding meets or exceed Motorola R-56 grounding requirements or equivalent.

Any change to an existing loading configuration by an existing user on the City of La Crosse tower must be processed with this application and complete this process, including the $1500 application fee.

City of La Crosse, Wisconsin

Tower Co-Location Application Form

Applicant: _____
RF Engineering Contact: _____
Contact's Phone #: _____
Applicant Site Name: _____
Applicant Site Number: _____

City of La Crosse Site Name: MVC
Application Contact Address: _____
_____
Applicant email: _____
Date of Appliation: _____

Latitude (Nad 27): _____
Longitude (Nad 27): _____

Existing Structure Type: _____

Ground Elev. (in feet): _____
Tower Height (in feet): _____

Antenna Configuration

** Note: If site request is for omni configuration, complete **Sector 1** only.

Desired Rad Center (Feet AGL)	Sector 1	Sector 2	Sector 3
Antenna Quantity			
Antenna Manufacturer			
Antenna Model (Please attach ant. pattern)			
Weight (per antenna)			
Antenna Length			
Antenna Gain (dB)			
Antenna Azimuth			
Mechanical Tilt			

Modulation Type (ie CDMA, TDMA, FM,etc) _____
Transmit Frequencies (all) _____
Recieve Frequencies (all) _____
Total Number of Coax Runs for all Sectors: _____
Coax Diameter: _____
Weight of Coax per Run: _____
Manufacturer of Coax: _____
Total Number of Channels Desired for Site: _____
Desired ERP (watts/channel)): _____

Antennas (microwave)

** Note: If Microwave dish is of grid type, please specify under **Diameter.**

Desired Radiation Center _____
(Feet AGL): _____
Antenna Quantity _____
Antenna Manufacturer: _____
Diameter: _____
Number of Runs of Coax: _____
Coaxial/Waveguide Diameter: _____
Weight of Coax per Run: _____
Manufacturer of Coax: _____
Transmit Frequency: _____
Recieve Frequency: _____
Modulation Type: _____
Channel Band Width: _____

Cellular/LMR Radio Equipment

Manufacturer: _____
Model: _____

Microwave Radio Equipment

Manufacturer: _____
Model: _____

Shelter Information

Concrete Slab Dimensions: _____
Power Requirements: _____
Shelter Manufacturer: _____
Shelter Dimensions: _____
*Shelter information not applicable for the MVC Site

City of La Crosse, Wisconsin

Tower Co-Location Application Form

Date:

Colocator:

Site Name:

Latitude:

Longitude:

Cellular

	Ant Number	Freq (MHz)	Trans. Power(W)	Trans. Count	Coax Length (ft)	Coax Type	Other Loss (dB)	Antenna Mfg.	Antenna Model	Tower Standoff(ft)	Height(ft) Rad Center	Antenna Length (ft)	Antenna Gain(dB)	Sector BWdth; Azimuth
Example>		850.0	45.0	5.0	150.0	7/8LDF	3.0	Decibel	DB874	4.0	155.0	8.0	12.0	Omni
	1													
	2													
	3													
	4													
	5													
	6													

Microwave

	Ant Number	Freq (MHz)	Trans. Power(W)	Trans. Count	Coax Length (ft)	Coax Type	Other Loss (dB)	Antenna Mfg.	Antenna Model	Tower Standoff(ft)	Height(ft) Rad Center	Antenna Length (ft)	Antenna Gain(dB)	3dB BWdth; Azimuth
Example>		1200.0	2.0	1.0	150.0	7/8LDF	3.0	Raytheon	DEC649	5.0	132.0	4.0	32.0	1.2;124
	1													
	2													
	3													

Notes:

1. **Freq.(MHz).** The maximum transmitting frequency.
2. **Trans. Power.** The maximum transmitting power of 1 radio in Watts.
3. **Trans. Count** The number of radios on this antenna.
4. **Coax Length(ft)** The linear feet of cable from the radio to antenna.
5. **Coax Type.** The size and type of coaxial cable used.
6. **Other loss.** Loss occurring from sources other that the cable.
7. **Antenna Mfg.** The manufacturer of the antenna.
8. **Tower Standoff** The distance from the vertical axis of the antenna to the nearest tower surface.
9. **Rad Center** The distance in feet from the base of the tower to the bottom of the antennas radiating aperture.