

| REGULATIONS | Acacia Staff Proposed | | Acacia Existing | | AVAILABILITY | MUNICIPAL JURISDICTIONS | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|-----------------|-------------|---|-------------------------|-------------------------------------|-----------------|--------------|----------------|--------------|------------------------------|--------------|---------------------------------------|--------------|---------------------------|----------------|---|----------------|--------------|-----------|------------|---------------|--|---|---|---|--------------------|---|--|---|---|
| | Permitted | Conditional | Permitted | Conditional | | Yorkville IL | Naperville IL | West Chicago IL | Oak Brook IL | East Dundee IL | Elk Grove IL | Lisle IL | Wood Dale IL | Plainfield IL | Channahon IL | Mt. Pleasant IL | St. Charles IL | Champaign IL | Bloomington IL | Deerfield IL | Robert IL | Wheaton IL | Lee County IL | Lake Villa IL | | | | | | | | |
| zoning Distinct | C | | P | | 27% New Data C | M-1, M-2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Performance Standards | Y | | Y | | 83% Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | | |
| Noise | 59 Day & 40 Night on a dBA weighted scale measured at the facility property line. ALSO limiting the testing hours of emergency generators to weekday Daytime hours. AND, require continuous monitoring and record keeping requirements. | Staff believes that this dB level is in the facility property line. Also limiting the testing hours of emergency generators to weekday Daytime hours. AND, require continuous monitoring and record keeping requirements. | Y | | 66% Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | |
| Smoke and PM | Compliance with the State Standards and maintain a Min Turbidity Generator | Compliance with the State Standards and maintain a Min Turbidity Generator | Y | | 47% Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | | |
| Vibration | Mandate Vibration Isolation on Generators. Automated Vibration Monitoring at all property line intersections within 1,000 ft of residential property. If all residences coupled with real time alarm for facility maintenance and security staff. Intelligent reporting shall be coupled with generator stage quantities and thresholds. | Values of K to be used in Vibration Formula: Location K: In any neighboring lot: Steady state: 0.015 Impulsive: 0.025 18 pulses/24 hr per 0.015 In any residence district: Steady state: 0.010 Impulsive: 0.020 18 pulses/24 hr per 0.015 | Y | | 40% Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | |
| Water Pollution | Water Usage Efficiency Factor | Require a closed loop chiller or technology which uses even less potable water | Y | | 40% Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | | |
| Energy | Energy Efficiency Factor | Require a closed loop chiller or technology which uses even less potable water | Y | | 40% Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | | |
| Energy Usage | Energy Efficiency Factor | Require a closed loop chiller or technology which uses even less potable water | Y | | 40% Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | | |
| Parking requirements | 1 space per 7,000 SF of GFA. The site shall also be designed to accommodate land-bermed parking pursuant to Section 200B Workstation, change or expansion facility parking requirements in Table Two. Release of DR-IB testing requirements in the Acacia zoning Ordinance future parking work. Should the zoning Administrator determine that the current parking requirement is insufficient, the land-bermed parking, or a portion thereof, shall be constructed upon written notice from the City. | 1 sp per 7k SF of GFA (Data Center Space) + 1 sp per 300 SF of GFA (Office) | Y | | 100% + 100 (100 to 100) | Y | 20 sp + 70k SF of | + 0.3/2k of | Y | 1/2k GSF | Y | 1/2k + 100k + 10% thereafter | Y | Staff Determined by most use category | Y | 1 space per each employee | Y | 1 sp / 3k of loading space reduction possible | Y | 2.5/2k | Y | 2/2k | Y | 1/2k with landbanking for a total of 12.5k in future | Y | 1 sp per company vehicle or truck space | Y | 1.5 sp/2 employees | Y | 2 sp/3 employees OR 1/1000F whichever is greater | Y | Per commission determination all employees + visitors |
| Noise Study | Data center facility shall comply with the Illinois Pollution Control Board's (IPCB) Environmental Regulations for Noise (Title 35 Environmental Protection Subtitle H, Noise Part, 800 and 802). Plus, Acacia's new constant minimum sound value at the property line of the facility. | Constant Noise Monitoring and record keeping per the Development agreement. These should be made available on request. | Y | | via Building Code Chapter 01 | Y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Generator Testing | Unless the generators are supplying backup electrical supply during a power outage, generator testing may only occur between the hours of 8:00 am and 5:00 pm, Monday through Friday, excluding holidays with no more than two (2) generators operating simultaneously. | | N | | limitations | Y | 11.5 weekdays, no holidays | | | | | | | | | | | | | | | | | | | | | | | | | |
| Enclosed Building | Fully Screened | | N | | Enclosed building or fully screened outside storage area | Y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Landscape Buffer | Testing but more opportunity for additional planting with the (SINCE) planting requirement. | | Y | | Perimeter Requirement: 3 Canopy Tree Equivalents (CTE) per 100 feet Buffer Yard Requirement: 3 Canopy Tree Equivalents (CTE) per 100 feet of lot line if adjacent to residential (20% shall be non-canopy tree planting material) | Y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Separation Requirement | Any ground-mounted chillers shall not be located within five hundred (500) feet, and any roof-mounted chillers shall not be located within five hundred (500) feet, measured from the nearest part of the wall extension of the equipment yard, to a property line of any residential, educational or hospital use within the city's corporate limits. Generators shall not be located within five hundred (500) feet, measured from the nearest part of the wall extension of the equipment yard to a property line of any residential, educational or hospital use. Roof-mounted generators are prohibited. | | N | | | Y | 100 ft to Non-MF, 100 ft to Roadway | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max Height | Existing Ord. M-1 & M-2 Standards | | Y | | 100 ft (max. mech) when within 1,500 ft of R uses | Y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max Size | Existing Standards | | Y | | 100 ft (max. mech) when within 1,500 ft of R uses | Y | | | | | | | | | | | | | | | | | | | | | | | | | | |

