

6. APPENDICES

Appendix A: SAC Criteria for Commercial Properties

FACILITY

PARAMETER

SAC

Note: Not all SAC criteria are listed in Appendix A. For rare types of uses (any not listed) contact MCES for Determination.

FACILITY	PARAMETER	SAC
Airport/Terminals	Contact MCES for Determination	
Animal Clinic (humane societies, animal research, boarding, etc.); remainder use other criteria	*17 fixture units	1
Animal Grooming ; remainder use other criteria	4 stations	1
Animal Washing	1 tub	1
Archery (6 feet/lane); for remainder use other criteria	6 lanes	1
Arena (bleachers 18 inches/person); remainder use other criteria	110 seats	1
Assisted Living (see formula below to determine the number of residents)		
No washer/dryer in each unit	3 residents	1
Washer/dryer in each unit	2.5 residents	1
Calculate the number of residents as follows:		
Number of efficiency units x 1.0 resident/unit		
+ Number of one-bedroom units x 1.5 residents/unit		
+ Number of two-bedroom units x 2.0 residents/unit		
+ <u>Number of three-bedroom units x 3.0 residents/unit</u>		
Total number of residents for SAC calculation		
Auditorium (7 square feet/person)	110 seats	1
Automobile Service ; remainder use other criteria		
Fast service (less than 4 hours/car)	2 service bays	1
Major service (more than 4 hours/car)	14 service bays	1
Car dealership (charges for office, retail, etc. are separate at established rates)	2 service bays	1
Fast service (number of service bays x 30%)	2 service bays	1
Major service (Number of service bays x 70%)	14 service bays	1
Bank (exclude bank vault)	2,400 square feet	1
Banquet Room (15 square feet/person)		
Food catered	2,060 square feet	1
Food catered with dishwashing	1,180 square feet	1
Food catered with liquor	1,028 square feet	1
Food catered with dishwashing and liquor	750 square feet	1
Food preparation and dishwashing	825 square feet	1
Food preparation with dishwashing and liquor	590 square feet	1
Bar (no food service) (previously under <i>Cocktail Lounge</i>)	23 seats	1
Non-Fixed Seating (lineal feet of the bar @ 1.5 feet per seat)	23 seats	1
Barber	4 cutting stations	1
Shower	*17 fixture units	1
Batting Cage (10 feet/lane-pitching; 15 feet/lane-batting); for remainder use other criteria	6 lanes	1
Beauty Salon		
Hair Cutting	4 cutting stations	1
Manicure	9 stations	1
Pedicure/Facial	7 stations	1
Shower	*17 fixture units	1
Bingo Hall (used only for bingo)	1,650 square feet	1
Boarding House (dorm rooms; with food service)	5 beds	1

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Body Shop (major service – more than 4 hours/car; vehicle washing additional)	14 service bays	1
Bowling Alley (for remainder use other criteria)	3 alleys	1
Cafeteria (maximum number of meals prepared in 24 hours x 3 gallons/meal); <i>include meals prepared during business hours as well as after-hour events</i>	274 gallons	1
Camp (number of gallons x occupant or Site)		
Children's camps (central toilet and bath; overnight, primitive cabins; number of occupants x 50 gallons/occupant)	274 gallons	1
Day camps (no meals served; number of occupants x 10 gallons/occupant)	274 gallons	1
Labor/construction camps (number of occupants x 50 gallons/occupant)		
Resorts (housekeeping cabins; number of occupants x 60 gallons/occupant)	274 gallons	1
Travel trailer parks		
With water and sewer hookup (number Sites x 100 gallons/Site)	274 gallons	1
With central toilet and showers (number of Sites x 75 gallons/Site)	274 gallons	1
Sanitary dump (Sites without hookup; number of Sites x 10 gallons/Site)	274 gallons	1
Card Room	Contact MCES for Determination	
Car Detailing (see also <i>Car Wash</i> for vehicle washing bays)	14 employees	1
Car Wash		
Self-Serve; Other Car Wash Bays	1 Bay	3
Automatic (Roll-over, Conveyor/Pull-Through)	Contact MCES for Determination	
Catering	Contact MCES for Determination	
Church (for sanctuary, nave, chancel; 7 square feet/person seating area; sacristy and ambulatory at no charge); for remainder use other criteria	275 seats	1
Shower (if lockers use <i>Locker Room</i> criteria)	*17 fixture units	1
Ablution Room (# of people in sanctuary x 1.5 gallons/person)	274 gallons	1
Clinic (Also see <i>Hospital</i>); SAC is the greater of Clinic or Office/Meeting ; remainder use other criteria		
Clinic	*17 fixture units	1
Office	2,400 square feet	1
Meeting Room (Conference)	1,650 square feet	1
Sterilizer (4 hours x gallons per minute x 60 minutes)	274 gallons	1
X-ray film processor (4 hours x gallons per minute x 60 minutes)	274 gallons	1
Dental clinic vacuum device (4 hours x gallons per minute x 60 minutes)	274 gallons	1
Whirlpool, therapy (number of gallons to fill x 8 fills/day)	274 gallons	1
Coffee Shop (no food service)	23 seats	1
College/University (see <i>School</i>)		
Condominiums	1 unit	1
Conference Rooms (see <i>Meeting Room</i>)		
Convention Center (15 square feet/person)	14 people	1
Correction Facility (prison)	3 inmates	1
Court Room	1,650 square feet	1
Dance Floor		
With Beverage Service	350 square feet	1
Without Beverage Service	700 square feet	1

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Daycare Facilities (Includes child and adult care; excludes home businesses)	620 square feet	1
Health Club, Bowling Alley, etc.	2,400 square feet	1
Dialysis Center	Contact MCES for Determination	
Dorm Room (on and off campus; charge for classrooms is additional)	5 beds	1
Dry Cleaner (retail)	3,000 square feet	1
Elder Housing (see <i>Assisted Living</i>)		
Exercise Area/Gym (With Showers); (juice bars at no charge); for remainder use other criteria	700 square feet	1
No showers	2,060 square feet	1
Exhibit Hall (gross square feet x 45% usable space @ 7 square feet/person)	64 people	1
Fairgrounds (For an open area without fixed limit of attendance and with buildings that have facilities connected to sanitary sewer.)	Contact MCES for Determination	
Fire Station (for remainder use other criteria)		
Hose Tower	1 tower	1
Vehicle Washing (3.5 gallons per minute x 20 minutes x # of vehicles)	274 gallons	1
Full time, overnight people (75 gallons/person)	274 gallons	1
Volunteer (occasional overnight stays)	14 volunteers	1
Funeral Home (charge for the viewing areas only: i.e., chapel); for remainder use other criteria	770 square feet	1
Shower	*17 fixture units	1
Apartment	1 Apartment	1
Game Room (billiards, video and pinball games)		
With bar	590 square feet	1
Without bar	2,060 square feet	1
Golf Course (if facility has showers use Locker Room criteria); See <i>Section 5.2.1.7 for discount</i>		
18 hole		3
9 hole (par 3)		2
Miniature		3
Country club (private)		
Dining room (used only on evenings and weekends)	15 seats	1
Bar and grill (with bar and grill separate)		
Bar only	23 seats	1
Grill	15 seats	1
Golf Dome or Driving Range (for remainder use other criteria)	6 driving stations	1
Greenhouse		
Area not open to the public	15,000 square feet	1
Area open to the public	5,000 square feet	1
General retail area	3,000 square feet	1
Group Home		
Secondary treatment (residents leave during the day)	5 beds	1
Primary treatment (residents stay all day)	3 beds	1
Guest Room (in an Apartment or Condominium complex)		
Washer/dryer	100% of current SAC rate	
No washer/dryer	80% of current SAC rate	
No kitchen, washer/dryer	50% of current SAC rate	

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Handball and Racquetball Court	1 court	2
Hangars (Corporate)	Contact MCES for Determination	
Hangars (Private Aircraft)	1 Hangar	1
Plane/Vehicle Washing (3.5 gallons per minute x 20 minutes x # of Bays)	274 gallons	1
Hospital (licensed beds or baby cribs)	1 bed	1
Outpatient clinic	*17 fixture units	1
Sterilizer (4 hours x gallons per minute x 60 minutes)	274 gallons	1
X-ray film processor (4 hours x gallons per minute x 60 minutes)	274 gallons	1
Ice Arena		
Shower (if lockers use <i>Locker Room</i> criteria)		
Team Room (plumbing fixture units)	*17 fixture units	1
Bleachers	110 seats	1
Ice resurfacers (if discharge goes to the sanitary sewer)	1 resurfacers	4
Laundromat (required water volume for cycle time x 8 cycles/day x # of washers)	274 gallons	1
Library (subtract book storage areas, file areas; charge for common plumbing fixture units in public areas)	*17 fixture units	1
Reception, book checkout, office	2,400 square feet	1
Meeting room, board room	1,650 square feet	1
Loading Dock	7,000 square feet	1
Locker Room (if showers)	14 lockers/hooks	1
Manufacturing (for remainder use other criteria) (i.e. <i>Office</i> criteria)	7,000 square feet	1
Shower (if lockers use <i>Locker Room</i> criteria)	*17 fixture units	1
Process Discharge	Contact MCES for Determination	
Marina (Dumping Station)	1 station	1
Areas Open to Public; <i>see other criteria</i>		
Massage Room	5 stations	1
Shower (if lockers are included use <i>Locker Room</i> criteria)	*17 fixture units	1
Meals to Go (prepared bulk meals)		
# meals prepared in one day x 1.5 gallons/meal (<i>no dishwashing</i>)	274 gallons	1
Meeting Room (conference room) <i>Office conversions to Meeting Rooms smaller than 2600 square feet do not need a SAC Determination</i>	1,650 square feet	1
Memory Care (<i>see Nursing Home</i>)		
Mini-storage (storage area – no charge)		
Apartment	1 Apartment	1
Public Area	*17 fixture units	1
Mobile Home		
Motel and Hotel (assume 2 people/room; no charge for pools, saunas, whirlpools, game rooms, or exercise rooms used exclusively by guests)	2 rooms	1
Breakfast only (complimentary)	45 seats	1
Cocktail hour (complimentary)	55 seats	1
Kitchenette (number of kitchenettes x 10 gallons/day)	274 gallons	1
Museum	2,400 square feet	1

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Nail Salon (See <i>Beauty Salon</i>)		
Nursing Home	2 beds	1
Office		
General office (deduct mechanical rooms, elevator shafts, stairwells, and restroom areas)	2,400 square feet	1
Shower (if lockers use <i>Locker Room</i> criteria)	*17 fixture units	1
Meeting Room (conference room) <i>Office conversions to Meeting Rooms smaller than 2600 square feet do not need a SAC Determination</i>	1,650 square feet	1
Dental and Doctor's office, see <i>Hospital, Outpatient Clinic</i>		
Liquor License (see <i>Banquet Room</i> for the space covered under the liquor license)		
Parking Garage (if connected to sanitary sewer) Minimum 1 SAC; Otherwise use Floor Drain equivalent fixture units for Trench Drain base fixture unit assignments on outlet pipe(s) diameter.	*17 fixture units	1
Vehicle Washing	Contact MCES for Determination	1
Park Shelter See <i>Section 5.2.1.7 for discount</i>	*17 fixture units	1
Park Public Building (see <i>specific criteria for each use</i>); See <i>Section 5.2.1.7 for discount</i>		
Plane Washing	Contact MCES for Determination	
Police Station (use <i>Office</i> criteria)		
Cells (overnight – jail)	3 inmates	1
Cells (holding area with no overnight stays)	14 inmates	1
Private Vehicle Storage and Maintenance Bays	7,000 square feet	1
Vehicle Wash (3.5 gallons/minute x 15 minutes x # of bays)	274 gallons	1
Restaurant		
Fixed Seating (actual number of seats; booth seating is 24"/seat)	10 seats	1
Non-Fixed Seating (square feet of dining area @ 15 square feet/seat)	10 seats	1
<u>Outdoor patios and sidewalk seating are counted same as inside seating.</u> See <i>Section 5.2.1.8.1 for discount</i>		
Drive-in (See <i>Section 5.2.1.7 for discount</i>)	9 parking spaces	1
Take-out (no seating)	3,000 square feet	1
Retail Store (deduct mechanical rooms, elevator shafts, stairwells, escalators, restrooms and unfinished storage areas) (for remainder use other criteria) (i.e. <i>Gas Pumping</i>)	3,000 square feet	1
Shower (if lockers are included use <i>Locker Room</i> criteria)	*17 fixture units	1
Roller Rink (skating area only)	825 square feet	1
Rooming House (no food service)	7 beds	1
RV Dumping Station (not in association with camp grounds)		1
School (teacher offices are included in the per student criteria; admin areas use separate criteria; music rooms are excluded in K-12 Schools without shower facilities)		
K-12 Schools (without shower facilities)	540 square feet	1
Library	1,650 square feet	1
K-12 Schools (with shower facilities)	420 square feet	1
Lab (includes computer, music, art and science)	700 square feet	1
Gym (if permanent bleachers)	110 seats	1
Library	1,650 square feet	1
College/technical/vocational	540 square feet	1
Lecture hall (no fixed seats)	270 square feet	1
Lecture hall (fixed seats)	18 seats	1
Lab	900 square feet	1
Gym (if permanent bleachers)	110 seats	1

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Dorm rooms (on and off campus)	5 beds	1
Library (see <i>Library criteria</i>)		
Liquor License (see <i>Banquet Room</i> for the building with the largest combined area used for banquets)		
Music School (number of practice rooms x 2 people/room)	18 students	1
Nursery school (see <i>Daycare</i>)		
House of worship nursery (used during worship service only; not daily parochial school)	1,650 square feet	1
Service Station		
Gas pumping		1
Convenience center	3,000 square feet	1
Service bays	2 bays	1
Car wash	Contact MCES for Determinations	
Shooting Range (rifle and handgun ranges, 6 feet/lane); for remainder use other criteria; See <i>Section 5.2.1.7 for discount</i>	6 lanes	1
Shop/Storage	7,000 square feet	1
Shower (if lockers use <i>Locker Room</i> criteria)	*17 fixture units	1
Swimming Pool (For non-Residential, swimming pool area only) No charge when used for private Residential, townhouse, Apartments, Condominiums, hotels, or motels used exclusively by residents of complex unless there is a separate sewer connection then use <i>Fixture Units</i> ; See <i>Section 5.2.1.7 for discount on outdoor pool</i>	900 square feet	1
Tanning Room	3,000 square feet	1
Shower (if lockers included use <i>Locker Room</i> criteria)	*17 fixture units	1
Tennis Court (non-Residential, showers available); See <i>Section 5.2.1.7 for discount</i>	1 court	2
No showers available	5 courts	1
Theater	64 seats	1
Drive-in (parking spaces); See <i>Section 5.2.1.7 for discount</i>	55 spaces	1
Treatment Center (includes nursing care; inpatient only)	2 beds	1
Vehicle Garage	*17 fixture units	1
Employees stationed in garage	14 employees	1
Vehicle drivers (per day)	28 drivers	1
Vehicle washing wash bay	1 bay	3
Shower (if lockers use <i>Locker Room</i> criteria)	*17 fixture units	1
Warehouse (for remainder use other criteria (i.e. <i>Office, Meeting Room</i> criteria)	7,000 square feet	1
Office/warehouse (speculative – <u>each tenant finish will need a determination completed</u>)		
Minimum 30% office	2,400 square feet	1
Maximum 70% warehouse	7,000 square feet	1
Shower (if lockers use <i>Locker Room</i> criteria)	*17 fixture units	1
Water Treatment Plants	Contact MCES for Determination	

*Asterisks in Appendix A denote facilities whose Determinations are based on fixture units, as described below:

Type of Fixture, including Rough-ins	Fixture Unit Value (f.u.)
Drinking Fountain	1
Floor Drain (1 f.u. per inch drain)	
2" waste	2
3" waste	3
4" waste	4
Trench drain: per each 6-foot section	2
Sinks	
Exam room, bathroom	1
Kitchen and others	2
Surgeon	3
Janitor/Service	3
Urinal	3
Water closet	6
Shower	
Stall (Public/Multi-User)	17
Stall (Private/Single User)	2
Gang/Group (per head)	1
Note: 17 Fixture Units (f.u.) = 1 SAC	