City and County of San Francisco
2011 Green Building Requirements
Summary and Verification Form
Specific Locally Required Measures Only

Submittal Template: Specific Locally Required Measures Only

INDOOR WATER USE COMPLIANCE FORMS

PRESCRIPTIVE APPROACH

Each fixture must not exceed the maximum flow rates at 20% reduction in Table 13C.5.303.2.3. All fixtures must meet the standards referenced in Table 13C.5.303.6. Tables are summarized below:

Fixture Type	Maximum Prescriptive Flow Rate	Referenced Standard from Table 13C.5.303.6
Showerheads[2]	2 gpm @ 80 psi	n/a
Lavatory faucets - nonresidential	0.4 gpm @ 60 psi	ASME A112.18.1/CSA B125.1
Kitchen faucets	1.8 gpm @ 60 psi	n/a
Wash fountains	1.8 [rim space (in.)/20 gpm @ 60 psi]	n/a
Metering faucets	.20 gallons/cycle	ASME A112.18.1/CSA B125.1
Metering faucets for wash fountains	.20 [rim space (in.)/20 gpm @ 60 psi]	n/a
Tank-type water closets	1.28 gallons/flush[1]	U.S. EPA WaterSense Tank-Type High-Efficiency Toilet Specification
Flushometer valve water closets	1.28 gallons/flush[1]	ASME A112.19.2/CSA B45.1 - 1.28 gal (4.8 L)
Urinals	0.5 gallons/flush	ASME A112.19.2/CSA B45.1 – 0.5 gal (1.9 L)

Notes:
1) For dual flush toilets, effective flush volume is defines as the average volume of two reduced flushes and one full flush. The referenced standard is ASME A112.19.14 and USEPA WaterSense Tank-Type High Efficiency Toilet Specification – 1.28 gal (4.8 L).
2) The combined flow rate of all showerheads in one shower stall not exceed the maximum flow rate for one showerhead, or the shower shall be designed to allow only one showerhead to be in operation at a time (13C.5.303.2.1).3) Table above is a summary only. See full text of San Francisco Building Code for details.

OR

PERFORMANCE APPROACH

Instructions to applicant:

Fill in all blank cells in both tables below. The number of occupants using each fixture type must be the same in both the Baseline and Design cases. If there are no fixtures of a type in your project, enter "0" for number of occupants. Multiply each row to determine the amount of water used in each fixture type, then sum the last column to determine the total daily water use. Take 80% of this baseline case to be the maximum allowable water use (corresponding to the required 20% reduction).

The Total Design Case Daily Water Usage use from Worksheet WS-2 must not exceed the Total Allowable Daily Water Usage from Worksheet WS-1.

Worksheet WS-1 (summary) - Baseline & Allowable Water Use

Fixture Type	Daily use		Occupants [2]		Baseline Flow Rate		Baseline Usage (gallons per day)
Showerhead	5 min.	x		x	2.5 gpm	=	
Showerhead - residential	8 min.	x		x	2.5 gpm	=	
Lavatory faucets	0.25 min.	x		x	0.5 gpm	=	
Lavatory faucets - residential	0.75 min.	x		x	2.2 gpm	=	
Kitchen faucets	4 min.	x		x	2.2 gpm	=	
Metering faucets	3	x		x	0.25 gal	=	
Water closets (all types)	1 male[1] 3 female	x		x	1.6 gal	=	
Urinals	2 male	x		x	1.0 gal	=	
						Total Baseline Case Daily Usage:	
						Total Allowable Daily Water Usage (Baseline Usage x 80%):	

Notes:
1) The daily use number shall be increased to three if urinals are not installed in the room.
2) For non-residential occupancies, refer to table A, Chapter 4, 2010 California Plumbing Code for occupant load factors.
3) Fixtures and fittings must meet the standards referenced in Table 13C5.303.6, see above.
4) Table above is a summary only. See full text of San Francisco Building Code for details.

Worksheet WS-2 (summary) - Design Water Use

Fixture Type	Daily use		Occupants [2]		Design Flow Rate		Design Usage (gallons per day)
Showerhead	5 min.	x		x		=	
Showerhead - residential	8 min.	x		x		=	
Lavatory faucets	0.25 min.	x		x		=	
Lavatory faucets - residential	0.75 min.	x		x		=	
Kitchen faucets	4 min.	x		x		=	
Metering faucets	3	x		x		=	
Water closets (all types)	1 male[1] 3 female	x		x		=	
Urinals	2 male	x		x		=	
						Total Design Case Daily Usage:	

Notes: see table WS-1 (summary) above for notes

REQUIREMENTS

Instructions to applicant:
Check the box by each measure to indicate that you intend to comply with the listed requirement. For each requirement, use the "Plan Set Location" column to indicate where in the submittal documents compliance with the requirement can be verified. An abbreviated summary of each requirement is included for reference. Projects seeking LEED certification may voluntarily use the "LEED" submittal as an alternative to this form.

Specific Measures Required by San Francisco Building Code Chapter 13C		Reference (Indicate Plan Set Sheet & Detail, or Specification, where applicable)
Construction Waste Management – Divert at least 65% of construction and demolition debris by complying with the San Francisco Construction & Demolition Debris Ordinance)	☐	
Recycling by Occupants: Provide space for storage, collection, and loading of recycling, **compost** and trash. (13C.5.410.1, et al) - See Administrative Bulletin 088 for details.	☐	
Energy Efficiency: Demonstrate a 15% energy use reduction compared to 2008 California Energy Code, Title 24, Part 6. (13C.5.201.1.1)	☐	
Construction Site Runoff Pollution Prevention: Provide a construction site Stormwater Pollution Prevention Plan (13C.5.103.1.6)	☐	
Long-term Water Runoff Pollution Prevention: implement SFPUC Best Management Practices. (13C.5.103.1.6)	☐	
Water Efficient Irrigation - Projects that include 1,000 square feet or more of new or modified landscape must comply with the San Francisco Water Efficient Irrigation Ordinance.	☐	
Bicycle parking: Provide short-term and long-term bicycle parking for 5% of total motorized parking capacity each, or meet San Francisco Planning Code Sec 155, whichever is greater (or LEED credit SSc4.2). (13C.5.106.4)	☐	
Fuel efficient vehicle and carpool parking: Provide stall marking for low-emitting, fuel efficient, and carpool/van pool vehicles; approximately 8% of total spaces. (13C.5.106.5)	☐	
Light pollution reduction: Contain lighting within each source. No more than .01 horizontal footcandles 15 beyond site (or LEED credit SS 8). (13C.5.106.8)	☐	
Water Meters: Provide submeters for spaces projected to consume more than 1,000 gal/day, or more than 100 gal/day if in building over 50,000 sq. ft. (13C.5.303.1)	☐	
Indoor Water Efficiency: Reduce overall use of potable water within the building by 20% for showerheads, lavatories, kitchen faucets, wash fountains, water closets, and urinals. (13C.5.303.2)	☐	
Commissioning: For new buildings greater than 10,000 square feet, commissioning shall be included in the design and construction of the project to verify that the building systems and components meet the owner's project requirements. (13C.5.410.2) **OR** for buildings less than 10,000 square feet, testing and adjusting of systems is required. (13C.5.410.4)	☐ *OR* ☐	
Protect duct openings and mechanical equipment during construction (13C.5.504.3)	☐	
Adhesives, sealants, and caulks: Comply with VOC limits in SCAQMD Rule 1168 VOC limits and California Code of Regulations Title 17 for aerosol adhesives. (13C.5.504.4.1)	☐	
Paints and coatings: Comply with VOC limits in the Air Resources Board Architectural Coatings Suggested Control Measure and California Code of Regulations Title 17 for aerosol paints. (13C.5.504.4.3)	☐	
Carpet: All carpet must meet one of the following: 1. Carpet and Rug Institute Green Label Plus Program 2. California Department of Public Health Standard Practice for the testing of VOCs (Specification 01350) 3. NSF/ANSI 140 at the Gold level 4. Scientific Certifications Systems Sustainable Choice *AND* **Carpet cushion** must meet CRI Green Label, *AND* **Carpet adhesive** must not exceed 50 g/L VOC content. (13C.5.504.4.4)	☐	
Composite wood: Meet CARB Air Toxics Control Measure for Composite Wood. (13C.5.504.4.5)	☐	
Resilient flooring systems: For 50% of floor area receiving resilient flooring, install resilient flooring complying with the VOC-emission limits defined in the 2009 Collaborative for High Performance Schools (CHPS) criteria or certified under the Resilient Floor Covering Institute (RFCI) FloorScore program. (13C.5.504.4.6)	☐	
Environmental Tobacco Smoke: Prohibit smoking within 25 feet of building entries, outdoor air intakes, and operable windows. (13C.5.504.7)	☐	
Air Filtration: Provide at least MERV-8 filters in regularly occupied spaces of mechanically ventilated buildings. (13C.5.504.5.3)	☐	
Acoustical Control: Wall and roof-ceilings STC 50, exterior windows STC 30, party walls and floor-ceilings STC 40. (13C.5.507.4)	☐	
CFCs and Halons: Do not install equipment that contains CFCs or Halons. (13C.5.508.1)	☐	
Additional Requirement for New A, B, I, OR M Occupancy Projects 5,000 - 25,000 Square Feet		
Construction Waste Management – Divert 75% of construction and demolition debris (i.e. 10% more than required by the San Francisco Construction & Demolition Debris Ordinance)	☐	

Notes:
1) This submittal form is approved for all applicable projects submitting initial application for building permit from January 1, 2011 through Dec. 31, 2011.
2) Table above is a summary only. See full text of San Francisco Building Code for details.

VERIFICATION

Project Name

Block/Lot

Address

Primary Occupancy

Gross Building Area

The Green Building Compliance Professional of Record for this project is:

Name

Firm

Architectural or Engineering License

☐ I am a LEED Accredited Professional
# of Certified LEED Projects Completed: _____

To the best of my knowledge, it is my professional opinion the Green Building requirements of the City of San Francisco will be met for the above referenced project. I have been retained by the project sponsor to review all submittal documents and assure that approved construction documents and construction properly reflect the Green Building requirements of Chapter 13C. I will notify the Department of Building Inspection if I believe to the best of my knowledge that the project will, for any reason, not substantially comply with these green building requirements, or if I am no longer the Green Building Compliance Professional of Record for this project.

Licensed Professional: Sign & Date

Affix professional stamp:

Insert Project Name / Titleblock here