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Florida Water Star[SM] Existing Building Commercial and Institutional Critera

This program is for existing commercial and institutional projects and provides water-efficient options for indoors and existing landscapes. There are two paths to certification.

Path A: Self-Prescribed
(Only applicable for applicants with similar building use pre- and post-retrofit.)

1. Submit 12 months of water use data.
2. Conduct BASIC water audit procedures outlined in the ***Water Efficiency Self-Conducted Water Audit Guidebook*** for all applicable areas of water use. Worksheets from the guidebook will be submitted as proof of conducting audit procedures.
3. Create and implement a plan to reduce total water use by 30%.
4. Demonstrate, using billing or meter data, total water savings of 30% compared to the previous 12 months.

Path B: Criteria Directed

Meet the criteria referenced below; recognition by section is an option, with final certification when all four sections are complete. This can be achieved over a period of time or simultaneously.

Please refer to the Florida Water Star[SM] Technical Manual for additional information on the criteria and practices. Florida Water Star[SM] is a service mark of the St. Johns River Water Management District.

General Information			
Applicant Information		**Project Information**	
Name		Project name	
Company		Address	
Address		City/county	
City/county		Owner phone	
Phone		Owner email	
Email		Number of occupants	
		Water Source	

Existing Building Commercial and Institutional Criteria

Documents that must be provided to the Florida Water Star[SM] certifier prior to certification

Required Submissions	Yes	No	NA
Water use billing data or potential water use calculations (path A only)			
Landscape and irrigation drawing			
HVAC compliance document (attached)			
Schedule of indoor fixtures, including performance specifications			
Process water description, if applicable			

Criteria				
Section 1 — Landscape and Irrigation		**Yes**	**No**	**NA**
REQ	Landscape and irrigation drawing (see technical manual for details).			
LC 1	No invasive exotic plant species are in the landscaped area.			
LC 2	Root balls for new plants are at least 2.5 feet on center from the foundation of structure.			
LC 3	All new plant selections are compatible with site-specific growing conditions, such as sunlight, soil type and salinity.			
LC 4	Trees will provide shade to a minimum of 30% of the total landscaped area at maturity.			
LC 5	Organic mulch is applied to a depth of 2 to 4 inches, leaving a 2-inch space around base of plant.			
LC 6	All new plants are spaced for growth to maturity.			
IRC 1	Potable sourced irrigation water shall be metered.			
IRC 2	All newly installed sprinkler heads are located 2 feet from structures.			
IRC 3	Irrigation zones for turf grass and landscaped beds are separate.			
IRC 4	Irrigation system is free from leaks.			
IRC 5	Sprinklers in low-lying areas have check valves.			
IRC 6	Sprinklers rise above turf grass height.			
IRC 7	Head spacing does not exceed 50% of the nozzle throw diameter			
IRC 8	Application occurs in proper spray patterns, minimizing overspray on impervious surfaces.			

Criteria				
IRC 9	Precipitation rates for all sprinklers within a zone are matched. (Sprinklers and emitters shall be spaced in accordance with the product manufacturer's recommendation for matched precipitation rate for sprinklers operating together in the same zone.)			
IRC 10	All sprinkler heads with spray nozzles (non-rotary) are pressure-regulated at the head or zone valve.			
IRC 11	The irrigation schedule is set in compliance with the water management district watering restrictions.			
Section 2 — HVAC		**Yes**	**No**	**NA**
HVAC 1	Use the lowest-quality water supply available for HVAC cooling. Where non-potable water is used, it must conform to the water quality and treatment requirements of the jurisdiction having authority and the manufacturer's recommendations.			
HVAC 2	Prohibit the use of once-through cooling using potable water.			
HVAC 3	No visible leaks and minimal scaling and bio-foul on water-cooled HVAC unit equipment.			
HVAC 4	Equip cooling towers, evaporative condenser and evaporative fluid coolers with makeup water and (bleed) blowdown meters, conductivity controllers and overflow alarms.			
HVAC 5	HVAC cooling towers, evaporative condensers and fluid coolers shall be equipped with efficiency drift eliminators that produce drift losses of not more than 0.002% of the circulated water volume for counter-flow system and 0.005% for cross-flow towers.			
HVAC 6	Operate on not less than five cycles of concentration is required for air-conditioning cooling tower makeup water having a total hardness of less than 11 grams per gallon (gr/gal) (188 milligrams per liter [mg/L]), expressed as calcium carbonate.			
HVAC 7	Operate on not less than 3.5 cycles of concentration is required for air-conditioning cooling tower makeup water having a total hardness equal to or exceeding 11 gr/gal (188 mg/L), expressed as calcium carbonate.			
Section 3 — Indoor		**Yes**	**No**	**NA**
REQ	Schedule of indoor fixtures, including performance specifications.			
INC 1	All toilets are either low-flow or high-efficiency; 3.5 or 5 gallons/flush replaced with 1.6 or 1.28 gallons/flush with a UNAR MaP rating 350 grams/flush or higher.			
INC 2	All urinals are high-efficiency, 0.5 gallons/flush if existing or 0.125 gallons/flush if newly installed. WaterSense®-labeled urinals comply.			
INC 3	Single showerhead with flow rate of 2 gallons/minute or less, or WaterSense®-labeled.			
INC 4	All non-metering lavatory sink faucets have flow rates of 0.5 gallons/minute or less, and metering faucets have flow rate of 0.25 gallons/minute.			

Criteria				
INC 5	All pre-rinse spray valves use 1.25 gallons/minute or less or WaterSense® labeled.			
INC 6	All new non-industrial dishwashers are ENERGY STAR®-labeled.			
INC 7	All new non-industrial clothes-washers are ENERGY STAR®-labeled.			
INC 8	All new commercial ice makers are ENERGY STAR®-labeled.			
Section 4 — Business Process Water (Water use other than landscape, indoor and HVAC)		**Yes**	**No**	**NA**
REQ	Process water description.			
PW1	All process water use is evaluated/audited.			
PW2	Leak assessment is conducted.			
PW3	Employee education program developed and implemented (including ongoing leak detection and messaging that water savings is important).			
Section 5 — Other Water-efficiency Features (include details of any other features not referenced above for additional recognition)				