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Florida Water StarSM New Commercial and Institutional Building Criteria

The Florida Water StarSM Commercial and Institutional program certifies new offices, retail and service establishments, and institutional and nonindustrial buildings.

General Information	
Project name	
Project address	
County	
Project type	
Water management district	
Project area	
Building area	
Landscaped area	
Irrigated area	
Number of stories	
Projected occupancy	
Water provider	

Required Submittals
Certificate of occupancy
Indoor/schedule of fixtures/appliances, including performance specifications
Irrigation design
Irrigation zone run times
Water budget calculations
Landscape design
Plant palette
Operation and maintenance plan

Indoor Requirements

This form is used to demonstrate compliance with Florida Water StarSM Commercial/Institutional indoor requirements.

General

IN 1	All appliance water supply lines are reinforced.	
IN 2	Quarter turn valves used for all fixtures and appliance connections.	

Fixtures

IN 3	Toilets are high-efficiency, 1.28 gallons/flush, with a UNAR MaP rating above 350 grams per flush. WaterSense [®] -labeled toilets comply.	
IN 4	Urinals are high-efficiency, 0.5 gallons/flush.	
IN 5	Lavatory non-metering sink faucets have flow rates of 0.5 gallons/minute or less.	
IN 6	Metering lavatory sink faucets have flow rates of 0.25 gallons per metering cycle or less.	
IN 7	Shower stalls have a single showerhead with flow rate of 2.0 gallons/minute or less, or are WaterSense [®] -labeled.	
IN 8	Prerinse spray valves use 1.25 gallons/minute or less.	

Appliances

IN 9	Dishwashers use less than 4.25 gallons/cycle. ENERGY STAR [®] models qualify.	
IN 10	Commercial dishwashers are ENERGY STAR [®] -labeled.	
IN 11	Residential clothes washer have water factor of 6 or less. ENERGY STAR [®] models qualify.	
IN 12	Commercial clothes washers have water factor of 6 or less. ENERGY STAR [®] models qualify.	
IN 13	Ice machines are ENERGY STAR [®] -labeled.	
IN 14	Commercial food steamers are ENERGY STAR [®] -labeled.	
IN 15	Commercial woks are waterless.	
IN 16	HVAC cooling tower equipment meets Florida Water Star SM requirements as specified in the technical manual.	

Additional Requirements

Applicants must attach a schedule of fixtures and appliances that contains the quantity of each fixture/appliance, product model numbers, water use specifications, and indication of ENERGY STAR[®] or WaterSense[®] labeling.

Irrigation Requirements

This form is used to demonstrate compliance with Florida Water StarSM Commercial/Institutional irrigation requirements.

General Design

IR 1	Irrigation zones for turf grass and landscape beds are separate.	
IR 2	Sprinklers and emitters are located a minimum of 2 feet from structures.	
IR 3	Irrigation system is free from leaks.	
IR 4	Sprinklers in low-lying areas have check valves.	
IR 5	Sprinklers rise above turf grass height.	
IR 6	Application occurs in correct spray patterns, minimizing overspray on impervious surfaces.	

Uniformity

IR 7	Pipes are sized to prevent velocities greater than 5 feet per second.	
IR 8	Precipitation rates for all sprinklers within a zone are matched.	
IR 9	Head spacing does not exceed 50% of the nozzle throw diameter.	
IR 10	All zones are pressure regulated at the manufacturer's specified pressure for the sprinklers/emitters installed within the zone.	
IR 11	Variable-arc nozzles (VANs) are only used to irrigate unevenly shaped turf grass areas that cannot be effectively irrigated with fixed-spray nozzles.	

Operation and Scheduling

IR 12	A device with rain shut-off capabilities is installed in an operable location and is functioning.	
IR 13	The irrigation schedule for maintenance does not exceed 20 inches (12.5 gallons) per square foot annually, and the controller is set in compliance with water management district watering restrictions.	

Water Budget Compliance

Applicants must attach a water budget compliance report. It is recommended that the Florida Water StarSM Water Budget Calculator be used. For more information, see the Florida Water StarSM technical manual web pages.

Landscape Description and Design Requirements

This form is used to demonstrate compliance with Florida Water StarSM Commercial/Institutional landscape requirements.

Site Characteristics

Hardiness Zone	pH	Soil Moisture	Sun	Salinity

Include details about site elevation, topography, soils, existing trees, shading from buildings, etc. Go to the Florida Water StarSM technical manual web pages for examples of submittals.

Requirements

LS 1	No invasive exotic plant species are in the landscaped area.	
LS 2	For inground irrigation systems, turf grass and landscaped bed areas are distinctly separate.	
LS 3	Root balls are at least 2.5 feet on center from the foundation of structure.	
LS 4	Plants are spaced for growth to maturity.	
LS 5	Plant selections are compatible with site-specific growing conditions such as sunlight, soil type and salinity.	
LS 6	Plants are grouped by similar moisture and maintenance requirements.	