

CITY OF DOTHAN, ALABAMA

STANDARD OPERATING GUIDELINE - NO. 10

CITY WATER AND ELECTRICITY CONSERVATION PLAN

I. PURPOSE

- A. To establish a Water Conservation Plan for the City of Dothan Operations and Facilities.
- B. To reduce the electrical energy and demand requirements of City Government.

II. GUIDELINE

- A. WATER -The City of Dothan must be the leader in water conservation because of the need to conserve our water resources and because it makes good economic sense.

On an ongoing basis to reduce and maintain City Departmental Operations Water Usage to a conservative level the following strategies should be enacted.

1. Determine and evaluate water usage by all City Departments.
2. Determine and evaluate all criteria for specific usages.
 - a. Review all plant and facility operations for excess water consumption by reviewing water use history.
 - b. Review watering requirements and methods for landscaping of City property.
3. Determine if usage can be reduced without adversely affecting the function.
 - a. Review all on-site plant and facility operations for opportunities to reduce water consumption. Discuss with operators and maintenance personnel.
 - b. Review methods of water system flushing and fire hydrant testing to reduce usage of flushing or test water.
 - c. Investigate and recommend low maintenance landscaping at City facilities that require less water or can be more efficiently watered.

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- d. Locate and evaluate reliability of existing equipment that regulates/uses water resources.
 - e. Designate a departmental representative/s to assume duties as Conservation Coordinator.
4. Determine project feasibility, with cost-benefit ratio and scheduling, for infrastructure improvements to aid in accomplishing goal.
 - a. To include Sewage Treatment Plant effluent reuse.
 - b. Replace or optimize water source Air Conditioner unit at water treatment plant and other locations
 - c. Review and recommend gray water uses at the Westgate facility and other city locations.
 5. Encourage water conservation suggestions from all City personnel.
- B. ELECTRICAL -The City of Dothan must be the leader in electrical energy conservation because of the need to conserve our natural resources and because it makes good economic sense.

On an ongoing basis to reduce and maintain City Departmental Operations Electrical Energy Usage to a conservative level the following strategies should be enacted.

1. Determine and evaluate all metered electrical usage by Department.
2. Determine and evaluate all criteria for specific usages.
 - a. Determine appropriate lighting in hallways and etc.
 - b. Ensure proper use and operation of all building thermostats.
 - c. Review and update Operating Guideline No. 9 (Energy Management Guideline).
3. Determine if and where reduced usage will sustain a successful project.
4. Determine project feasibility, with cost-benefit ratio and scheduling, for infrastructure improvements to aid in accomplishing goal.

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- a. Installation and/or replacement of “stand-by” generation. Propose for use during City load management/emergency operations.
 - b. Replacement of traffic signal lamps with more efficient lamps.
 - c. Ballast and lamp replacement in all City buildings.
 - d. Evaluate electrical equipment efficiency to include infrared technology. Project to be coordinated with/by Dothan Utilities’ engineering staff.
5. Designate a departmental representative/s to assume duties as Conservation Coordinator.

III. RESERVATION OF AUTHORITY

The City Manager reserves the authority to change, amend or modify this operating guideline.

IV. APPROVAL AND EFFECTIVE DATE

This operating guideline is adopted and approved by the City Manager on this _____ day of _____, _____.

ATTEST BY:

CITY CLERK

APPROVED BY:

CITY MANAGER