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quick facts on...

Operations & Maintenance Program

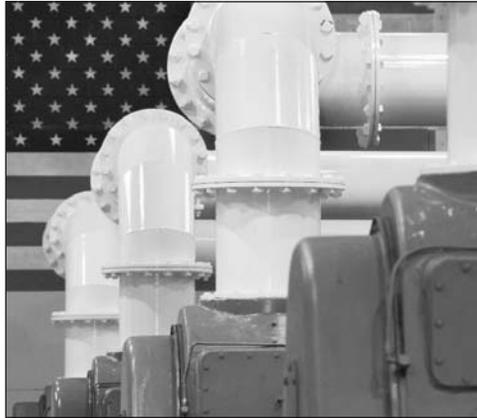
OCTOBER 2006

The South Florida Water Management District is a regional, governmental agency that oversees the water resources in the southern half of the state. It is the oldest and largest of the state's five water management districts.

Our Mission is to manage and protect water resources of the region by balancing and improving water quality, flood control, natural systems, and water supply.

2006 Key Accomplishments

- **2004 and 2005 hurricane debris and repairs completed, including Hurricane Wilma debris cleanup of Rim Canal adjacent to South Bay**
- **Bi-fuel conversion of some engines completed, along with on-going repairs, replacements and overhauls of infrastructure**



The South Florida Water Management District operates and maintains more than 2,000 miles of canals and levees, 25 major pumping stations and about 200 larger and 2,000 smaller water control structures.

The Operations and Maintenance Program consists of activities designed to effectively and efficiently manage the primary canals and associated water control structures in South Florida. This program manages South Florida's primary canal system as authorized by Ch. 373 Florida Statutes and the U.S. Army Corps of Engineers. South Florida's primary canal system is made up of the Central and Southern Florida (C&SF) Project and the Big Cypress Basin. Major components of this program are operations and maintenance of water management infrastructure, flood mitigation, water supply and environmental enhancement.

Primary activities of this program include the operation and maintenance of more than 500 water control structures, more than 50 pump stations, the installation and maintenance of over 2,000 automated remote terminal units and over 25 weather stations. Other activities range from vegetation management to heavy equipment operation. These efforts are related to the 1,969 miles of canals and levees, of which 1,800 miles are in the C&SF Project, and 169 miles are in the Big Cypress Basin.

Agency Strategic Priority

Refurbish the regional water management system

Program Goal

To minimize damage from flooding, provide adequate regional water supply, and protect and restore the environment by optimally operating and maintaining the primary flood control and water supply system

The Operations and Maintenance Program functions throughout the 16-county District area, and is responsible for hydrological data collection, flow determination, SCADA (remote) operated infrastructure and hydrological basin management, as well as Stormwater Treatment Areas operations and maintenance. The Engineering and Construction component of the program manages the design, construction, maintenance and refurbishment of the surface water management infrastructure. In recent years extremely active hurricane seasons have repeatedly brought heavy rains to South Florida. Flooding has been kept to a minimum through expert management of the water management system. Employees from the eight field stations located throughout the District, and from headquarters in West Palm Beach, implement recovery activities following hurricanes or other natural disasters.

Strategies

- Repair damages from the 2004 and 2005 hurricane seasons
- Refurbish infrastructure to design condition
- Operate and maintain the regional system under established schedules
- Maintain rights-of-way for maintenance access
- Regulate use of District rights-of-way
- Control vegetation that potentially impedes system effectiveness
- Utilize life-cycle costing for equipment and facilities
- Manage a scientific and hydrological monitoring network
- Maintain telemetry/SCADA system
- Analyze equipment and facilities and make necessary repairs and replacements
- Enhance cross training and technical expertise to absorb growing workload, while keeping pace with new technology and changes to utilize existing staff effectively
- Outsource non-core competencies
- Annually update the 50-year plans and workloads
- Develop annual work plans for all field stations

Success Indicators

- Number of capital projects awarded
- Acre-feet of water moved
- Number of pump station engines and gate structure overhauls completed
- Acres of levee and canal banks maintained; cycles completed
- Acres of vegetation treated annually
- Number of scheduled telemetry installations completed and sites maintained
- No permits are issued that have an adverse impact on conveyance capacity, levee integrity and access for operations and maintenance
- Percentage of District works maintained on schedule
- Acres of invasive non-native aquatic plants in inventoried public waters



The Operations and Maintenance Program moves billions of gallons of water a year to tide through its massive water control structures. This system serves as the primary flood-control drainage and water supply network with local facilities augmenting this system.



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SERVICE CENTERS

Big Cypress Basin/Naples
 239-597-1505
 Broward
 954-713-3200
 Florida Keys (Plantation Key)
 305-853-3219 or 800-464-5067
 Lower West Coast
 239-338-2929 or 800-248-1201

Martin/St. Lucie
 772-223-2600 or 800-250-4100
 Miami-Dade
 305-377-7274 or 800-250-4300
 Okeechobee
 863-462-5260 or 800-250-4200
 Orlando
 407-858-6100 or 800-250-4250
 Palm Beach County
 561-682-2283 or 800-432-2045