

MEMORANDUM

TO: Governing Board Members

FROM: George L. Horne, Deputy Executive Director, Operations & Maintenance

DATE: May 3, 2010

SUBJECT: 4600002130- Datalogger Area Recorder Maintenance

Background:

The mission of the South Florida Water Management District (District) is to manage and protect water resources of the region by balancing and improving water quality, flood control, natural systems, and water supply. The District spans sixteen (16) counties with a total population of about six (6) million residents. This geographic region covers 17,930 square miles and includes vast areas of agricultural lands, water conservation areas, and areas of enormous urban growth and development. To support its mission, the District operates and maintains a surface and ground water network that includes 1,800 miles of canals and levees, 25 major pumping stations, and about 200 large and 2,000 smaller water control structures. Supervisory Control and Data Acquisition (SCADA) systems monitor and control a network of over 800 sites.

The District and SCADA and Instrumentation Management Division (SIM) desires to contract the maintenance services of 231 sites for a period of three (3) years. These sites are located from St. Lucie to Florida City which encompasses the southeast area of the District. This includes areas in and around Water Conservations Areas 1, 2, and 3, Dupuis Reserve, Northeast Shark River Slough, Rotenberger Tract, and Holey Land.

These sites provide continuous monitoring of surface and ground water levels, gate and pump status, water quality monitoring and meteorological parameters. This data collection network provides information to District staff responsible for flood control, environmental monitoring and assessment and is in support of the following legislative mandates: Central & Southern (C&SF) project-authorized by ch. 373 Florida Statutes which require the operations and maintenance of water management infrastructure, flood mitigation, water supply and enhancement, and the Comprehensive Everglades Restoration Plan (CERP) authorized by the Water Resources Development Act for 2000 (WRDA 2000).

How this helps meet the District's 10-year Strategic Plan:

Data derived from these monitoring sites is very critical in supporting the District's mission of flood control, environmental monitoring, assessment and protection as mandated by the Federal Government.

Funding Source:

This is a three (3) year contract with two (2) one-year renewal options at the discretion of the District with DNK Environmental Inc., for a not-to-exceed amount of \$2,800,000 of which ad valorem funds in the amount of \$170,841 are budgeted. All remaining FY11-FY13 funds are subject to Governing Board approval.

This Board item impacts what areas of the District, both resource areas and geography:

This item impacts the Operations and Maintenance, Operations Control & Hydro Data Management and SCADA & Instrumentation Management staff who will be managing or utilizing data and resources supplied by this contract. The maintenance services of this contract will be utilized throughout the District's southeastern coverage area.

What concerns could this Board item raise?

The SIM division does not have the necessary manpower to perform the required maintenance, data collection and verification and repairs at these sites to ensure the accuracy of the hydrologic records and continuous uninterrupted data flow. These activities are vital to support the District's mission of flood control, environmental monitoring and assessment and mandated requirements.

Why should the Governing Board approve this item?

These sites provide invaluable data to several District groups and external customers from which decisions are made concerning flood control, water supply, environmental monitoring and assessment and modeling as mandated by the Federal Government. Due to limited personnel resources, the SIM division is requesting all mentioned services be placed under contract which will allow us the ability to provide continuous, accurate and reliable data flow to our customers for all monitored hydrologic and meteorologic parameters and to ensure the protection of life and property through flood control.

GLH/gxr