

MEMORANDUM

TO: Governing Board Members

FROM: Tommy B. Strowd, P.E., Deputy Executive Director, Operations & Maintenance.

DATE: January 25, 2011

SUBJECT: PR 1012XXXX - Operations Decision Support System (ODSS) – IBM – ILOG Business Rule Management System

Background: The scope of the Operations Decision Support System (ODSS) project is the development and delivery of an ODSS application solution that meets defined South Florida Water Management District (District) business requirements. ODSS will be comprised of hardware, software, and services to be delivered as the result of a structure system development life cycle process.

ODSS will be a new component of the overall Water Management System (WMS) that is used to provide real-time and historical hydro-meteorological data and decision support tools to the District's Operational Control Center as well as centrally accessible data for the District's various departments, cooperating agencies, and the public.

A key aspect of realizing ODSS business requirements is the ability to seamlessly integrate individual software components into a common ODSS application. Several products have been identified that, when integrated, will provide the key capabilities needed for the ODSS. Of these products, IBM's ILOG Business Rule Management System (BRMS) - provides rule management capabilities needed to realize ODSS business requirements. IBM's ILOG will provide cornerstone capabilities for the ODSS application.

How this helps meet the District's 10-year Strategic Plan: ODSS is part of the Water Management System element of the Operations & Maintenance Program and supports the District's 10-year strategic plan goal of optimally operating the primary flood control and water supply system.

Funding Source: A not to exceed amount of \$276,066, of which \$138,033 is budgeted using ad valorem funds within the Operations & Maintenance, Operations Control and Hydro Data Management Department. The remainder is subject to Governing Board approval of the FY12 budget.

This Board item impacts what areas of the District, both resource areas and geography: This item impacts O&M Resource Area and Information Technology Department resources in Palm Beach County. The project's deliverables will have a District-wide impact on the WMS.

What concerns could this Board item raise?

This Special Procurement using the State of Florida Contract #252-500-09-1. A Request-for-Information (RFI) process was used to identify candidate software products, and a prototype development effort was subsequently employed to verify or prove product capabilities. This process resulted in the award to IBM for their ILOG product.

Why should the Governing Board approve this item?

The growing complexity of the District's Water Management System (WMS) requires decision support automation to protect people, property, and natural systems; and to sustain the growth of the water management infrastructure. The ODSS project was engaged to address this complexity and support District water managers in their decision making processes.

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