

M E M O R A N D U M

TO: Governing Board Members

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

DATE: February 17, 2010

SUBJECT: 4600002079 - S-331 Pump Station Hurricane Hardening

Background:

The S-331 pump Station is a 3-unit pump station in a concrete and concrete block masonry structure, constructed in 1983. It functions in both water supply and flood control mode by controlling the level in the L-31N Canal. A new Regional Command and Control Facility was recently constructed on the site by the US Army Corps of Engineers to automate operation of pump stations S-331, S-332B, S-332C, S-332D, S-356 and S-357. Other new stations are planned to be remotely operated from S-331 in the future (S-199, S-200). The new facility is immediately adjacent to the old control room of the pump station building. The separate control room roof was replaced at the time of the new construction, and the control room walls were tested and determined to meet current District wind load requirements.

In March 2008, this structure underwent a comprehensive inspection (civil, structural, mechanical, electrical and underwater) as part of the Structure Inspection Program (SIP). The SIP is a cyclical five-year program to provide comprehensive, third party inspections. The deliverable report is a planning tool for future maintenance and capital projects. The report found several deficiencies, including roofing and walls, at the S-331 Pump Station.

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

This project is an integral component in the District's 10-year Strategic Plan to refurbish the infrastructure.

Funding Source:

The lowest responsive and responsible bidder is Close Construction, Inc., with a total amount of \$ 563,460, for which ad valorem funds from the Operations & Maintenance Capital Program of \$ 314,200 are budgeted; and the remainder is subject to Governing Board approval of the FY11 budget.

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

This item impacts the Operations and Maintenance Resource area of the District and Miami-Dade County.

What concerns could this Board item raise?

This contract followed the District's standard procurement procedures. The lowest responsive and responsible bidder was selected.

Why should the Governing Board approve this item?

The objective of this project is to provide adequate hurricane protection to District equipment and personnel at the S-331 Pump Station. The District's current requirement is for critical building structures to be able to survive and continue to operate during a 200 year mean recurrence interval storm. The identified project elements will fulfill that requirement.

GLH/tb