



ARLINGTON COUNTY, VIRGINIA

**County Board Agenda Item
Meeting of December 13, 2008**

DATE: December 2, 2008

SUBJECT: Approve the Award of Contract Amendment No. 6G to Agreement No. 96-03 between the County Board and Malcolm Pirnie, Inc. for Engineering Design Services for Department of Environmental Services Water Pollution Control Plant Master Plan 2001 Update (“WPCP MP01”).

C. M. RECOMMENDATIONS:

1. Approve the award of Amendment No. 6G to Agreement No. 96-03 between the County Board and Malcolm Pirnie, Inc. in an amount not to exceed \$1,195,055, which includes \$128,055 contingency, to provide additional engineering services. The Amendment No. 6G authorization brings the Board approved total for Agreement No. 96-03 to \$13,983,055.
2. Authorize the Purchasing Agent to execute the Amendment subject to legal review by the County Attorney.

ISSUE: Approval of the award of an amendment to a design contract is needed to accomplish additional design work.

SUMMARY: The work which is the subject of Agreement No. 6G is included in the \$568 million overall WPCP MP01 budget. The proposed contract amendment is for engineering work by Malcolm Pirnie, Inc. to provide design services for the completion of the design of the Temporarily Deferred Projects.

BACKGROUND: In January 2003, the County Board endorsed the concept for the WPCP MP01 to enable the County to meet current and future capacity demands in the most environmentally appropriate manner. The capital improvements proposed by MP01 provided for redundancy, increased capacity sufficient for existing and future flows estimated to meet the needs out to the years 2015-2020+, and a positive environmental impact for Four Mile Run, the Potomac River, and the Chesapeake Bay, as well as addressing external wet-weather bypasses, aging infrastructure, reliability, odor control, and security matters.

Because of excessively high bids for construction received during the original bidding process in CY 2004 and CY 2005, the MP01 project was broken up into various components and rebid to

County Manager: _____

County Attorney: _____

Staff: Lawrence Slattery, Bureau Chief, WPCB

generate more competition and lower costs. Thereafter, contracts for construction and renovation work that are core to the MP01 effort were awarded and work currently is progressing at the WPCP under construction contracts for Phase 7A and Phase 7B and other contracts. Components of the MP01 effort that could be delayed without negatively impacting the Consent Order, or the WPCP mission, were temporarily deferred to a later date to ensure the MP01 effort would not exceed the budget and to generate more competition for these specialty components. The Temporarily Deferred Projects will significantly benefit the WPCP MP01 upgrade plan. These facilities are necessary to address the following:

- A. Standby Generation Facility will be a backup generator facility that will provide reliable electrical power for all WPCP process systems in case of electrical power supply issues described below. Over the last several years, the power supply grid in northern Virginia has experienced numerous low voltage events and outages during storms, inclement weather, and peak demand periods. Dominion Virginia Power (“DVP”) does not have the ability to rectify these challenges in a timely manner. This Standby Generation Facility will enable the WPCP to reliably meet the TN3 grant (\$96 million) requirements, participate in DVP’s Demand Side Management, better achieve Fresh Aire goals, address fuel availability challenges, and redesign required by construction coordination requirements.
- B. Modifications to the existing WPCP maintenance building will create a useable and expanded facility for WPCP staff to effectively and efficiently complete repairs and maintenance on critical plant equipment, meet current OSHA/VOSH regulations, and reduce the carbon footprint of the maintenance operation.
- C. As part of the MP01 overall effort, construction IFBs will result in the upgrade of all thirteen off-site pump stations to replace infrastructure components that have either failed or are beyond their useful life.

Funds previously have been authorized for the demolition project (Phase 7D). The Phase 7D project and related work is complete. There are unexpended funds available from the demolition project for this Amendment No. 6G. This amounts to \$1,195,055. The unused funds from the Phase 7D project can be used to fund Amendment No. 6G for Malcolm Pirnie, Inc. without increasing the total MP01 budget.

The Invitations for Bid (“IFB”) for construction of the WPCP MP01 update Temporarily Deferred Projects are expected to be issued between January 2009 and April 2009. The Temporarily Deferred Projects construction will consist of the Standby Generator Facility (SGF), modifications to the existing Maintenance Building (NMB), and Off Site Pumping Stations (CP-3). Malcolm Pirnie, Inc. is the Design Engineer for the WPCP MP01 Project under Agreement No. 96-03. In order to ensure that Engineering Design Services are completed before issuance of the construction IFBs for the Temporarily Deferred Projects, the approval of Amendment No. 6G and the authorization of additional funding is required to add these engineering and design services to Agreement No. 96-03.

DISCUSSION:

Malcolm Pirnie, Inc. performed Phase 7B and 7C (Design Package 2) Engineering and Construction services under Agreement No. 96-03. The scope of the services under this Amendment will include, but will not be limited to:

1. Prepare preliminary and final design reports, technical memoranda, design documents, specifications, bid documents, and etc. for each of the Temporarily Deferred Projects;
2. Incorporate value engineering recommendations and other inputs from regulatory agencies, County, Program Manager, and others to create 100% complete bid documents;
3. Provide all resources, coordination, and necessary effort required to successfully address the forgoing tasks and to allow the generation of viable bids. Provide bid phase services for the new contract packages; including updating construction cost estimates, responding to bidders' questions, providing bid addenda.
4. Perform all other miscellaneous engineering services related to the MP01 Project.

Contract costs to the County for the Engineering Design Services under Amendment No. 6G will be \$1,067,000, with a contingency amount of \$128,055. The total authorization for the Engineering Services under Amendment No. 6G is \$1,195,055. Including Amendment No. 6G, the total authorization to date for Contract No. 96-03 will be \$13,983,055.

FISCAL IMPACT: The Temporarily Deferred Projects are part of the budget for the Master Plan 2001 upgrade and expansion project at the DES/UEPD Water Pollution Control Plant. No increase in funding for the overall Project is required by the approval of Amendment 6G. The General Obligation bond funding for this work under Amendment 6G exists in fund 530, cost center 43541. The debt service costs are included in the annual projections for the water sewer rate, which ultimately funds the repayment of the debt service associated with MP01. Rate increases are projected to be approximately 10% to 15% per year for several years to fund all Utilities Fund projects and operating expenses.

Amendment No. 6G will be funded from previously appropriated funds for the MP01 project.