

28152

DATE: July 19, 2012

TO: Board of Acquisition and Contract

FROM: Marguerite Beirne, Chief Information Officer, Department of Information Technology

Thomas J. Lauro, P.E., Commissioner, Department of Environmental Facilities

Jay T. Pisco, P.E., Commissioner, Department of Public Works and Transportation

RE: AUTHORIZATION TO EXEMPT FROM THE WESTCHESTER COUNTY PROCUREMENT POLICY AND PROCEDURES, THE PROCUREMENT OF ADDITIONAL PROFESSIONAL CONSULTING AND ASSISTANCE SERVICES FROM MALCOLM PIRNIE, INC. FOR SCADA SOFTWARE AND INTRANET BASED SYSTEM UPGRADES

BACKGROUND:

- On June 21, 2007, your Honorable Board approved a resolution which authorized the County to enter into an agreement with Malcolm Pirnie, Inc., for consulting and assistance services for SCADA (Supervisory Control and Data Acquisition) software and Intranet-based systems upgrades for the Department of Environmental Facilities (DEF), for a two year period commencing July 1, 2007 and terminating June 30, 2009, for a total not to exceed contract amount of \$199,700. Contract IT-888 authorized in this resolution was subsequently executed and approved.
- On October 30, 2008, your Honorable Board approved a resolution which authorized an amendment to Contract IT-888 with Malcolm Pirnie, Inc., for consulting and assistance services for SCADA software and Intranet-based systems improvements utilized by DEF and the Westchester County Airport, increasing the amount by \$290,000 to a new total not to exceed contract amount of \$489,700 and by extending the term to a new termination date of December 31, 2010. The first amendment authorized in this resolution was subsequently executed and approved.
- On August 13, 2010, your Honorable Board approved a resolution which authorized an amendment to Contract IT-888 with Malcolm Pirnie, Inc. ("Malcolm Pirnie"), for consulting and assistance services for SCADA software and Intranet-based systems improvements utilized by DEF and the Westchester County Airport, increasing the amount by \$256,000 to a new total not to exceed contract amount of \$745,700 and by extending the term to a new termination date of June 30, 2012. The second amendment authorized in this resolution was subsequently executed and approved.
- Some of the projects performed by Malcolm Pirnie under the original agreement were to integrate the Grit & Gravity Belt thickener systems into the Yonkers Joint Wastewater Treatment Plant's SCADA system; automate primary sludge pump controls at Ossining; upgrade the SCADA system to enable control from the EOC; establish Web-Based monitoring of the SCADA system; and provide on-call SCADA systems maintenance and support for the duration of the contract.

- The first amendment covered a major effort related to Westchester County Airport's deicing system, which is an integral part of their operations. The deicing procedure involves the use of fluids which have high biochemical oxygen demands. Because of variations in temperature, winds, precipitation and the quantity of deicing fluids utilized, storm water leaving the deicing areas must be collected, monitored and discharged in a manner that meets the County's environmental and treatment permits. This discharge is routed to the Blind Brook Wastewater Treatment Plant. To aid the Airport in the careful collection, measurement and diversion of this runoff, a SCADA system was installed in the early 90's. Improvements under this amendment included (1) the ability to view Airport system status and alarms at the Blind Brook plant and (2) the ability for DEF and the Airport to expedite communications regarding discharges or unusual situations.
- The second amendment included an extension of on-call services to cover the seven (7) treatment plants, forty-three (43) pump stations and web based systems. In addition, this amendment included implementation of a standard report template to simplify creation of reports from the central data historian and to train DEF personnel to create reports; implement a data interface between the SCADA system and the tool that is used to produce regulatory reports to improve the accuracy and ease of creating these reports; establish filters that reduce the overall volume of alarms by eliminating alarms that refer to problems whose root cause is at another location.
- In addition, the second amendment also included additional work related to the Westchester County Airport deicing system. Subsequent to the software upgrade performed under the first amendment, several control sensors, valves and pumps were replaced and rewired, which necessitated reprogramming within the SCADA system. Airport personnel can now monitor and control the valves remotely and securely from the Administration office and were able to do so during major storms that occurred in 2011 after the programming was completed.
- Many members of Malcolm Pirnie's staff are intimately familiar with the DEF's SCADA system. Because of their expertise regarding the County's Wastewater Treatment Plants (WWTP) and because they are located in White Plains, they are able to quickly respond to the WWTP to resolve problems related to the SCADA system in a professional manner. Malcolm Pirnie staff's familiarity with our system and proximity has been crucial to enabling the plants to remain in compliance with their operating permits. Over the past five (5) years under this contract, Malcolm Pirnie has also assisted the County in procurement strategies for SCADA work, strategies for coordinating SCADA work, and has developed standards for design and configuration of the systems for use by other consultants to streamline and standardize County systems. They have worked closely with our IT department and DEF to coordinate work and set up security systems for both the plant and web-based SCADA systems.
- This new amendment will continue the on-call services intended to maintain the control room and web based monitoring and control systems active at each of the DEF plants, as well as those intended to maintain monitoring and control systems for remote managing of the Airport deicing system. In addition, this amendment will also include several task items identified by the DEF in coordination with the IT department. These include: upgrade of the SCADA software system and historical archiving software; implementation of a centralized reporting structure to allow operational reports to be automatically created in .pdf formats and emailed automatically to DEF plant and management personnel; and additional improvements to increase the remote management of the Airport deicing system. In addition, with the accelerated changes in technology, this amendment will include migration of the complex plant control systems to new PCs and servers, utilizing the most recent operating systems and configurations.
- Therefore, pursuant to Section 3 (a) xxi, the Westchester County Procurement Policy and Procedures are not applicable to a procurement for which this Honorable Board determines, by resolution passed prior to commencing such procurement, that compliance with this policy would

not be in the best interests of the County. Based on the reasons described above, it is proposed that the best interests of the County would continue to be served by exempting the procurement of additional consulting services from Malcolm Pirnie, Inc. from the County Procurement Policy.

- One public purpose of this amendment is to support the Airport's de-icing SCADA system in a way that promotes the safety of airline passengers and protects the environment by improving the treatment of fluids used for deicing. Another public purpose is to improve the efficiency of various DEF functions and rapidly resolve problems within DEF's SCADA system to mitigate the risk of environmental incidents.
- The goals and objectives are to have the capability to remotely view system status and alarms; to expedite communications between DEF and the Airport when fluid discharge or unusual situations occur and to rapidly resolve issues related to the SCADA system throughout all of DEF wastewater facilities. Progress toward these goals will be monitored by DEF staff assigned to each Task Order, who will sign off only upon completion of each task.
- A separate resolution is also before your Honorable Board requesting authorization to amend Contract IT-888 with Malcolm Pirnie, Inc.

ACTION REQUESTED:

- Authorization to exempt from the Westchester County Procurement Policy and Procedures, the procurement of additional professional consulting and assistance services from Malcolm Pirnie, Inc., for SCADA software and Intranet based system upgrades.

Accordingly, the attached resolution is submitted for your consideration.

APPROVED BOARD OF ACQUISITION & CONTRACT - 08/09/2014

PRIMARY FILE SECRETARY

RESOLUTION

UPON A COMMUNICATION FROM THE CHIEF INFORMATION OFFICER, DEPARTMENT OF INFORMATION TECHNOLOGY, THE COMMISSIONER, DEPARTMENT OF ENVIRONMENTAL FACILITIES AND THE COMMISSIONER, DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION, BE IT HEREBY

RESOLVED: that pursuant to Section 3 (a) xxi, of the Westchester County Procurement Policy and Procedures, it is hereby determined that application of the procedural requirements contained therein, including the necessity of soliciting proposals, is not in the best interest of the County in connection with the procurement of additional professional consulting and assistance services for SCADA (Supervisory Control and Data Acquisition) software and Intranet based system upgrades from Malcolm Pirnie, Inc.; and be it further

RESOLVED, that the County Executive or his duly authorized designee is hereby authorized to execute and deliver any and all documents and to take all action necessary and appropriate to effectuate the purposes hereof.

APPROVED BOARD OF ACQUISITION CONTRACT - 010912012 JOMMY DEIRA, SECRETARY

Account to be Charged/Credited:

Fund	Dept	Major Program, Program & Phase Or Unit	Object/ Sub-Object	Trust Account	Dollars
					NA

Budget Funding Year(s): NA

Start Date: NA

End Date: NA

Funding Source

Tax Dollars: \$NA

State Aid _____

\$NA

Federal Aid _____

(must match resolution) Other: _____

APPROVED BOARD OF ACQUISITION & CONTRACT - 08/09/2012 - JOMARY VIEIRA, SECRETARY