

ORDINANCE NO. 20-160

AN ORDINANCE AUTHORIZING AND DIRECTING THE CITY MANAGER TO ENTER INTO AN AGREEMENT WITH ROVISYS, OF AURORA, OHIO, FOR THE UPGRADE OF THE SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) SYSTEM AT THE BIG ISLAND WATER WORKS (BIWW) PLANT; AND DECLARING THAT THIS ORDINANCE SHALL TAKE IMMEDIATE EFFECT IN ACCORDANCE WITH SECTION 14 OF THE CITY CHARTER.

WHEREAS, the Big Island Water Works Plant (BIWW) and Wastewater Treatment Plant (WWTP) currently runs software to control their SCADA systems, which are the monitoring and control systems that allow operators to effectively run the facilities and shows real-time information, including flows, chemicals, alarms, and many other parameters; and

WHEREAS, the Wastewater Treatment Plant's SCADA system was upgraded in 2018 and the BIWW SCADA system is currently in need of upgrades as the hardware is between five (5) and seven (7) years old and the current software versioning for both the computer operation and the control software is past its support cycle and cannot be upgraded without hardware upgrades; and

WHEREAS, in 2018, RoviSys of Aurora, Ohio, was selected as the top-ranked firm from the Statements of Qualifications (SOQ) that were on file with the Department of Public Works by a selection committee based on the firm's experience, professional expertise and technical ability to perform and complete the upgrade to the WWTP's SCADA system and in order to maintain consistency and continuity at the plant, RoviSys was selected to perform the upgrades at the BIWW plant; and

WHEREAS, RoviSys, will be providing services, involving the upgrade of the existing SCADA system, including onsite engineering services, procuring the upgrade and historian licenses, and setup and testing of the new system; and

WHEREAS, the cost of the services is \$43,219.00 and will be paid with Water Funds; and

WHEREAS, approval is being requested in companion legislation to purchase a virtual server and workstations from Dell Marketing L.P. of Round Rock, Texas, through the State of Ohio Department of Administrative Services Cooperative Purchasing Program for the hardware upgrade of the SCADA system at the BIWW plant; and

WHEREAS, this Ordinance should be passed as an emergency measure under suspension of the rules in accordance with Section 14 of the City Charter in order to immediately execute the agreement to allow the necessary upgrades to be completed at the earliest opportunity upon receipt of the server and workstations; and

WHEREAS, in that it is deemed necessary in order to provide for the immediate preservation of the public peace, property, health, and safety of the City of Sandusky, Ohio, and its citizens, and to provide for the efficient daily operation of the Municipal Departments, including the Department of Public Works, of the City of Sandusky, Ohio, the City Commission of the City of Sandusky, Ohio finds that an emergency exists regarding the aforesaid, and that it is advisable that this **Ordinance**

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be declared an emergency measure which will take immediate effect in accordance with Section 14 of the City Charter upon its adoption; and NOW, THEREFORE,

BE IT ORDAINED BY THE CITY COMMISSION OF THE CITY OF SANDUSKY, OHIO, THAT:

Section 1. The City Manager is authorized and directed to enter into an agreement with RoviSys of Aurora, Ohio, for services for the Supervisory Control and Data Acquisition (SCADA) System upgrades at the Big Island Water Works (BIWW) plant, at an amount **not to exceed** Forty Three Thousand Two Hundred Nineteen and 00/100 Dollars (\$43,219.00), consistent with the proposal submitted, a copy of which is marked Exhibit "A" and attached to this Ordinance.

Section 2. If any section, phrase, sentence, or portion of this Ordinance is for any reason held invalid or unconstitutional by any Court of competent jurisdiction, such portion shall be deemed a separate, distinct, and independent provision, and such holding shall not affect the validity of the remaining portions thereof.

Section 3. This City Commission finds and determines that all formal actions of this City Commission concerning and relating to the passage of this Ordinance were taken in an open meeting of this City Commission and that all deliberations of this City Commission and of any of its committees that resulted in those formal actions were in meetings open to the public in compliance with the law.

Section 4. That for the reasons set forth in the preamble hereto, this Ordinance is hereby declared to be an emergency measure which shall take immediate effect in accordance with Section 14 of the City Charter after its adoption and due authentication by the President and the Clerk of the City Commission of the City of Sandusky, Ohio.



RICHARD R. BRADY
PRESIDENT OF THE CITY COMMISSION



ATTEST:

MCKENZIE E. SPRIGGS
CLERK OF THE CITY COMMISSION

Passed: November 9, 2020



SCADA Upgrade

For

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P20COSY06B

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Proposal Revision History

Rev	Date	Author	Description
A	9/15/2020	Manners, Chris	Initial Revision
B	10/22/2020	Manners, Chris	iFIX only

NOTICE

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1 RoviSys

1.1 Mission

The RoviSys mission is to: **Provide you, our clients, with process controls and information integration using the best available technologies and platforms, regardless of who makes them, giving our clients choices.** We provide uncompromising focus on customer satisfaction by providing the best engineered process control solutions to meet your needs.



1.2 Background

RoviSys was formed in April 1989 to provide timely, cost effective, reliable, and modern solutions to a wide range of systems applications using the best technology. This basic philosophy and our focus on customer satisfaction drives and enables our continuous growth. This growth has taken RoviSys to over 500 engineers at five locations: Aurora Ohio, Holly Springs North Carolina, Southborough Massachusetts, Houston Texas and Singapore.

RoviSys is a process automation integrator, MES integrator, and software development company grounded in the old and new worlds of proprietary control systems and technologies. Our engineers and developers know proprietary systems. Before joining RoviSys, many of them developed and engineered many successful large-scale control systems.

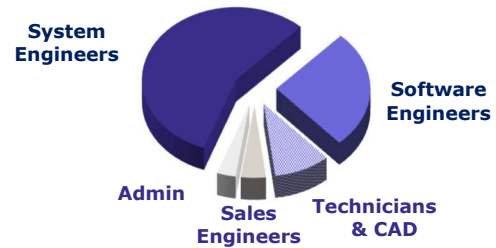
As an organization, we recognize that companies investing in the most proprietary of systems want something more: Freedom to choose the best available technologies and solutions with alternatives for support and upgrades. In short, they want open systems. RoviSys was founded to fulfill those needs. RoviSys is an independent integrator because we believe systems owners want the freedom to be enabled, not restrained.

RoviSys has developed an in-depth knowledge of control and information systems in a variety of vertical markets including Life Sciences, Glass, Chemicals, Consumer Packaged Goods, Paper & Wood Products, Water Resources, Power & Energy, Oil & Gas and Metals.

Across all RoviSys groups, we have sought and developed mutually beneficial relationships with our clients where RoviSys provides their control system integration, MES integration, and software development needs.

1.3 Staffing

The most valuable asset at RoviSys is our staff. Each of our employees has developed application experience in many of the industries we serve. Considerable effort is committed to hiring, developing, and retaining personnel with the following results:



- 90% of our staff are degreed.
- Fourteen Registered Professional Engineers in Electrical and Controls Engineering.
- Only 5% of our staff is dedicated to overhead, keeping our rates and costs low.
- A structure for maximum flexibility that can quickly adapt to and accommodate economic changes and large projects.
- Low turnover which benefits our customers by maintaining project team continuity.
- Many of our technical staff are cross-trained on multiple platforms.

One of the greatest strengths of RoviSys is a diverse employee knowledge base. RoviSys draws across all functions and employee skill sets in order to properly execute complex projects. Customers continue to come back to RoviSys because our dedicated employees execute projects following the RoviSys core principles. RoviSys is committed to providing a training program that develops a highly skilled workforce.

RoviSys believes in hiring the best engineers and in training them to execute quality projects using stringent design practices. This philosophy differentiates RoviSys from the traditional system integrator.

RoviSys has an internal training program for the advancement and development of our technical and commercial staff. The program covers many topics including project execution methodologies, technical subject matter, administrative functions, and knowledge specific to vertical markets.

1.4 Summary

As an independent automation organization and an approved system integrator for a wide range of control systems and MES platforms, RoviSys is well suited to meet the diverse needs of Sandusky WTP. Our independence combined with our experience on multi-level projects results in efficiency and quality in the creation of functional specifications, instrument specifications, process documentation, electrical design, and system configuration.

When clients are asked why they return to RoviSys for project after project, they indicate that it is RoviSys' ability to manage, deliver, and complete projects. Additionally, the integrity with which RoviSys executes their projects and the ongoing focus on customer satisfaction convinces them to look no further for their system integration and support needs whatever the industry.

2 Technical Proposal

2.1 Project Overview

The City of Sandusky WTP has requested that RoviSys provide budgetary pricing for upgrading the existing iFIX SCADA.

2.2 Existing System

The existing iFIX system contains (4) PCs running Windows 7. The HMI software running on these PCs are as follows:

Part Description	Software License Number
iFIX Unlimited Developer license w/ sync for redundancy	200090523
iFIX Unlimited Runtime license w/ sync for redundancy	200090522
iFIX Unlimited Runtime license view node	200090524
iFIX Unlimited Runtime license view node	200090525
iFIX IGS OPC Server	200090522
iFIX IGS OPC Server	200090523
iHistorian 1000 tags	200090524
Sytech XL Reporter Professional XL1PM	

3 Option A – iFIX Upgrade

The new iFIX server will be configured and setup in parallel with the existing server which alleviates cutover risks and system downtime. An additional benefit of this approach is that Sandusky personnel will have an opportunity to ensure existing functionality is available on the upgraded system.

3.1 Proposed Upgrade

The upgraded system will consist of (4) new PCs running Windows 10 64-bit operating system. The iFIX licensing will be upgraded from version 5.1 to the current version 6.1 for compatibility with Windows 10.

3.2 Proposed Project Scope

RoviSys will provide the following engineering services for the iFIX upgrade project:

- Onsite engineering services to review the current systems operation and backup the iFIX and iHistorian applications
- Procure iFIX upgrade licenses and iHistorian upgrade license
- Convert/Upgrade iFIX application
 - Backup/remove historical data from the application directory
 - Convert the iFIX 5.1 application to 6.1
 - Configure the IGS driver based on the existing IGS configuration
- Setup (2) iFIX Server nodes:
 - Create a VM to load the following software
 - Install VMWare Player (free version)

- Install iFIX server 6.1
 - Install iHistorian 6.1
 - Install XLReporter
 - Configure IP address
- Setup (2) InTouch Runtime nodes:
 - Install VMWare Player (free version)
 - Install iFIX iClient
 - Configure IP address
- Onsite engineering services to setup and test the new system

3.3 Assumptions

RoviSys assumes the following:

- Sandusky will provide all hardware including new PCs
- Sandusky will provide Microsoft Excel for XLReporter
- Sandusky will load preconfigured VMs on the new PCs
- RoviSys will provide the upgraded iFIX licenses at list price
- RoviSys will provide VM backups to Sandusky
- This proposal does not include VMWare costs including additional OS licenses if required
- Rockwell software upgrades are not required

3.4 iFIX Upgrade Pricing

RoviSys has estimated, in good faith, the effort and cost of this project. The cost estimate is based on the information provided to RoviSys by Sandusky WTP and on our experience in defining and implementing system projects of similar scope and complexity. This project will be invoiced in a fixed price fashion, with onsite services invoiced on a time and materials basis. Travel and Living (T&L) expenses are billed at actual cost and include mileage, meals, and lodging when required.

Pricing Summary Table

Scope Item	Price
Engineering Services - Fixed	\$11,623
Engineering Services - T&M	\$8,030
Outside Purchased Equipment & Services	\$22,588
Travel and Living Expenses (estimated)	\$978
Proposal Total	\$43,219

4 Commercial

4.1 Delivery

FOB: RoviSys.

Freight will be prepaid and added.

4.2 Proposal Validity

This proposal is valid for 90 days.

Payment Terms

- Invoicing, NET 30 days, of services as expended.
- Invoicing, NET 30 days, outside purchased equipment and software, as ordered.
- Invoicing will occur on a monthly basis until project completion.
- Travel and living will be invoiced at RoviSys cost as incurred.

All prices quoted are subject to applicable state and local sales taxes, which are the responsibility of Sandusky WTP.

4.3 Safety

Sandusky WTP is to supply MSDS (Material Safety Data Sheets) for any materials that RoviSys employees may be exposed to when onsite.

4.4 Terms and Conditions

See attached standard RoviSys Terms and Conditions, dated June 2016.

If RoviSys is selected for this work please send the purchase order to orders@rovisys.com