

Proposal for Services

TO:	City of Fernley	DATE:	June 2, 2020
ATTN:	Van Vanassche	PROPOSAL #:	PR-1605
PHONE:	775-302-6222	FROM:	Don Mewes
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PROJECT:	Water Treatment Facility Wonderware Upgrade		

Scope of Work

The scope of work is to provide the City of Fernley's water distribution facility with a SCADA HMI/Historian upgrade including servers and operating systems. The upgrade will keep the existing HMI look, feel and resolution.

Proposed Services

1. Project Management and Coordination

Verus will provide a project manager who will be the contact for Fernley during the project. The project manager will perform the following duties:

- a. Coordinate technical details with Fernley
- b. Procure Hardware as shown in deliverables
- c. Manage and coordinate the work and invoicing within Verus' scope

2. Engineering/Drawings

- a. Specify server components to be upgraded
- b. Develop computer sheets
- c. Develop simple connection diagram and IP list
- d. Procurement
 - i. Server components (memory, hard drives)
 - ii. Microsoft Server 2019
 - iii. Microsoft RDS CALs
 - iv. Wonderware Upgrades to version 2020
 - v. Thin Manager
 - vi. VSphere Essentials

3. IT

- a. Setup ESXI virtual server settings
- b. Install Windows Server 2019 on 6 VMs
- c. Configure virtual machines via Vsphere
- d. Setup Domain Controller

4. HMI Programming

- a. Configure redundant pair of HMI servers
- b. Migrate the Wonderware application to the Intouch 2020 version
- c. Configure Thin Manager
- d. Confirm user accounts
- e. Modify Alarm and Event tags to ensure no data flooding of the database
- f. Test the connectivity and functionality

5. Historian Programming
 - a. Configure redundant pair of Historian servers
 - b. Migrate the Wonderware Historian Data to the 2020 version
 - c. Configure Thin Manager
 - d. Confirm user accounts
 - e. Test the connectivity and functionality
6. Engineering Workstation Programming
 - a. Install the RSLogix5000
 - b. Install the Wonderware Development Studio
 - c. Test the connectivity and functionality

Deliverables

- Return of existing server with upgraded memory
- Software as listed below:
 - (1) Lot - Wonderware Upgrade
 - (6) Thin Manager with Redundant and 8x5 support
 - (1) VSphere Essentials
 - (6) Server 2019 Standard
 - (14) RDS CALs
- Connection Diagram
- Computer Sheets

Conditions/Exclusions

- Existing server will be utilized and have memory upgraded
- This project is to be a software upgrade only, graphical and functional design of the HMI software remains as original.
- Existing Wonderware Intouch application look, feel and functionality will remain.
- Existing operator workstations will be utilized

Budget

Item	Description	Labor	QTY	Total USD\$	Taxable
1	PM and Engineering	\$ 4,174	1	\$ 4,174	No
2	IT	\$ 3,087	1	\$ 3,087	No
3	Progammig	\$ 22,160	1	\$ 22,160	No
4	Software and Server Hardware	\$ 81,876	1	\$ 81,876	No
	SUB-TOTAL	\$ 111,297		\$ 111,297	
	Sales Tax	Exempt		\$ -	
	PROJECT TOTAL			\$111,297	

Commercial Basis

This proposal forms the sole basis for the work to be performed and supersedes all other proposals whether written or verbal.

TERMS AND CONDITIONS:	Available online at www.verusaec.com/terms
START DATE:	Work can begin upon receipt of purchase order.
TAX BASIS:	Excluded
TERMS OF PAYMENT:	Net 15
PROPOSAL VALID FOR:	30 Days
PROPOSAL BUDGET:	Based on receiving entire scope. Changes in scope will impact pricing.
CURRENCY:	United States Dollars (USD)
FREIGHT BASIS:	Not Applicable at this time
TRAVEL BASIS:	Expected travel time and expenses are included for this proposal.

ACCEPTANCE OF PROPOSAL

The prices, specifications, and conditions shown in the above proposal are accepted. Verus is authorized to start and complete the work specified. Payments will be made as outlined. Work will be scheduled upon receipt and acceptance by Verus. Upon acceptance this proposal becomes a contract.

Name

Signature

Date